

Lifeng Fan

List of Publications by Year in descending order

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78
papers

2,611
citations

172386

29
h-index

206029

48
g-index

81
all docs

81
docs citations

81
times ranked

1283
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of thermal effects on dynamic behavior of granite. Applied Thermal Engineering, 2017, 125, 94-103.	3.0	250
2	An investigation of thermal effects on micro-properties of granite by X-ray CT technique. Applied Thermal Engineering, 2018, 140, 505-519.	3.0	185
3	Micro-mechanical modeling of the macro-mechanical response and fracture behavior of rock using the numerical manifold method. Engineering Geology, 2017, 225, 49-60.	2.9	163
4	NUMERICAL MANIFOLD METHOD (NMM) SIMULATION OF STRESS WAVE PROPAGATION THROUGH FRACTURED ROCK MASS. International Journal of Applied Mechanics, 2013, 05, 1350022.	1.3	122
5	Spatial gradient distributions of thermal shock-induced damage to granite. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 917-926.	3.7	120
6	Experimental and discrete element modeling on cracking behavior of sandstone containing a single oval flaw under uniaxial compression. Engineering Fracture Mechanics, 2018, 194, 154-174.	2.0	66
7	Investigation of the characteristics of rock fracture process zone using coupled FEM/DEM method. Engineering Fracture Mechanics, 2018, 200, 355-374.	2.0	63
8	Pipe network model for unconfined seepage analysis in fractured rock masses. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 183-196.	2.6	61
9	Numerical study of the effect of confining pressure on the rock breakage efficiency and fragment size distribution of a TBM cutter using a coupled FEM-DEM method. Tunnelling and Underground Space Technology, 2019, 88, 260-275.	3.0	59
10	Analytical scrutiny of loosening pressure on deep twin-tunnels in rock formations. Tunnelling and Underground Space Technology, 2019, 83, 373-380.	3.0	57
11	Equivalent discrete fracture networks for modelling fluid flow in highly fractured rock mass. Engineering Geology, 2017, 229, 21-30.	2.9	55
12	An Experimental Study of Effect of High Temperature on the Permeability Evolution and Failure Response of Granite Under Triaxial Compression. Rock Mechanics and Rock Engineering, 2020, 53, 4403-4427.	2.6	54
13	Dynamic Study on Fracture Problems in Viscoelastic Sedimentary Rocks Using the Numerical Manifold Method. Rock Mechanics and Rock Engineering, 2013, 46, 1415-1427.	2.6	52
14	Nonlocal vibration and biaxial buckling of double-viscoelastic-FGM-nanoplate system with viscoelastic Pasternak medium in between. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1228-1235.	0.9	51
15	Effects of Microfracture on Wave Propagation through Rock Mass. International Journal of Geomechanics, 2017, 17, .	1.3	50
16	Two-phase flow pipe network method for simulation of CO2 sequestration in fractured saline aquifers. International Journal of Rock Mechanics and Minings Sciences, 2017, 98, 39-53.	2.6	48
17	Experimental Study on Viscoelastic Behavior of Sedimentary Rock under Dynamic Loading. Rock Mechanics and Rock Engineering, 2012, 45, 433-438.	2.6	47
18	Study of microstructure effect on the nonlinear mechanical behavior and failure process of rock using an image-based-FDEM model. Computers and Geotechnics, 2020, 121, 103480.	2.3	46

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19	Mesomechanism of the dynamic tensile fracture and fragmentation behaviour of concrete with heterogeneous mesostructure. <i>Construction and Building Materials</i> , 2019, 217, 573-591.	3.2	44
20	The numerical manifold method for elastic wave propagation in rock with time-dependent absorbing boundary conditions. <i>Engineering Analysis With Boundary Elements</i> , 2014, 46, 41-50.	2.0	43
21	Seismic wave propagation through an in-situ stressed rock mass. <i>Journal of Applied Geophysics</i> , 2015, 121, 13-20.	0.9	42
22	Simulation of two-phase flow in horizontal fracture networks with numerical manifold method. <i>Advances in Water Resources</i> , 2017, 108, 293-309.	1.7	41
23	An investigation of mechanical behavior of cement-stabilized crushed rock material using different compaction methods. <i>Construction and Building Materials</i> , 2013, 48, 508-515.	3.2	40
24	The numerical manifold method for 2D transient heat conduction problems in functionally graded materials. <i>Engineering Analysis With Boundary Elements</i> , 2018, 88, 145-155.	2.0	40
25	Micro-failure process and failure mechanism of brittle rock under uniaxial compression using continuous real-time wave velocity measurement. <i>Journal of Central South University</i> , 2021, 28, 556-571.	1.2	40
26	Effects of cyclic freezing and thawing on the mechanical behavior of dried and saturated sandstone. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 755-765.	1.6	39
27	Thermal shock analysis of 2D cracked solids using the numerical manifold method and precise time integration. <i>Engineering Analysis With Boundary Elements</i> , 2017, 75, 46-56.	2.0	38
28	Evaluation of equivalent medium methods for stress wave propagation in jointed rock mass. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 701-715.	1.7	32
29	An investigation of non-straight fissures cracking under uniaxial compression. <i>Engineering Fracture Mechanics</i> , 2018, 191, 300-310.	2.0	31
30	Micro-mechanism of brittle creep in saturated sandstone and its mechanical behavior after creep damage. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 149, 104994.	2.6	30
31	Modeling of 2D cracked FGMs under thermo-mechanical loadings with the numerical manifold method. <i>International Journal of Mechanical Sciences</i> , 2018, 148, 103-117.	3.6	28
32	Experimental investigation and modeling of viscoelastic behavior of concrete. <i>Construction and Building Materials</i> , 2013, 48, 814-821.	3.2	26
33	Analyses of transverse vibrations of axially pretensioned viscoelastic nanobeams with small size and surface effects. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2294-2299.	0.9	26
34	The numerical manifold method for crack modeling of two-dimensional functionally graded materials under thermal shocks. <i>Engineering Fracture Mechanics</i> , 2019, 208, 90-106.	2.0	25
35	Debris characteristics and scattering pattern analysis of reinforced concrete slabs subjected to internal blast loads—a numerical study. <i>International Journal of Impact Engineering</i> , 2019, 131, 1-16.	2.4	24
36	An experimental investigation of optimal asphalt aggregate ratio for different compaction methods. <i>Construction and Building Materials</i> , 2015, 91, 111-115.	3.2	23

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37	Application of the four-dimensional lattice spring model for blasting wave propagation around the underground rock cavern. <i>Tunnelling and Underground Space Technology</i> , 2018, 82, 135-147.	3.0	22
38	Thermal Cycling Effects on Micro-property Variation of Granite by a Spatial Micro-observation. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 2921-2928.	2.6	22
39	Effect of Nonlinear Deformational Macrojoint on Stress Wave Propagation Through a Double-Scale Discontinuous Rock Mass. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 1077-1090.	2.6	22
40	Modeling 2D transient heat conduction problems by the numerical manifold method on Wachspress polygonal elements. <i>Applied Mathematical Modelling</i> , 2017, 48, 607-620.	2.2	21
41	Investigation of stress wave induced cracking behavior of underground rock mass by the numerical manifold method. <i>Tunnelling and Underground Space Technology</i> , 2019, 92, 103032.	3.0	20
42	Effects of Hydraulic Gradient, Intersecting Angle, Aperture, and Fracture Length on the Nonlinearity of Fluid Flow in Smooth Intersecting Fractures: An Experimental Investigation. <i>Geofluids</i> , 2018, 2018, 1-14.	0.3	17
43	A Split Three-Characteristics Method for Stress Wave Propagation Through a Rock Mass with Double-Scale Discontinuities. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5767-5779.	2.6	17
44	Real-Time Visual Analysis of the Microcracking Behavior of Thermally Damaged Granite Under Uniaxial Loading. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 6549-6564.	2.6	17
45	Effect of the composition and concentration of geopolymer pore solution on the passivation characteristics of reinforcement. <i>Construction and Building Materials</i> , 2022, 319, 126128.	3.2	16
46	Segmented two-phase flow analysis in fractured geological medium based on the numerical manifold method. <i>Advances in Water Resources</i> , 2018, 121, 112-129.	1.7	15
47	Evaluation of the effects of three different cooling methods on the dynamic mechanical properties of thermal-treated sandstone. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	1.6	15
48	Performance of constructing a double-deck subway station by combining the shield method and cavernâ€‘pile method. <i>Tunnelling and Underground Space Technology</i> , 2017, 67, 120-131.	3.0	14
49	Computation of T-stresses for multiple-branched and intersecting cracks with the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 107, 149-158.	2.0	14
50	A fracture aperture dependent thermal-cohesive coupled model for modelling thermal conduction in fractured rock mass. <i>Computers and Geotechnics</i> , 2019, 114, 103108.	2.3	14
51	Research and engineering application of pre-stressed cementing technology for preventing micro-annulus caused by cyclic loading-unloading in deep shale gas horizontal wells. <i>Journal of Petroleum Science and Engineering</i> , 2021, 200, 108359.	2.1	14
52	An extended numerical manifold method for two-phase seepageâ€‘stress coupling process modelling in fractured porous medium. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114514.	3.4	14
53	Effective viscoelastic behaviour of rock mass with double-scale discontinuities. <i>Geophysical Journal International</i> , 2012, 191, 147-154.	1.0	13
54	A microâ€‘macro method for predicting the shear strength of brittle rock under compressive loading. <i>Mechanics Research Communications</i> , 2016, 75, 13-19.	1.0	13

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55	Evaluation of stress wave propagation through rock mass using a modified dominate frequency method. <i>Journal of Applied Geophysics</i> , 2016, 132, 53-59.	0.9	13
56	T-stress evaluation for multiple cracks in FGMs by the numerical manifold method and the interaction integral. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 105, 102436.	2.1	13
57	A unified pipe-network-based numerical manifold method for simulating immiscible two-phase flow in geological media. <i>Journal of Hydrology</i> , 2019, 568, 119-134.	2.3	12
58	Spatial Failure Mode Analysis of Frozen Sandstone Under Uniaxial Compression Based on CT Technology. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 4123-4138.	2.6	11
59	Thermal cycling effects on the dynamic behavior of granite and microstructural observations. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 8711-8723.	1.6	10
60	An experimental investigation of pre-loading effects on the dynamic behaviour of concrete. <i>Magazine of Concrete Research</i> , 2017, 69, 586-594.	0.9	9
61	Mechanism and numerical simulation of a new device of bypass cementing device for controlling casing shear deformation induced by fault slipping. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 107820.	2.1	8
62	Enhanced compressive performance of concrete via 3D-printing reinforcement. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 675-684.	1.3	7
63	Non-attenuation Behavior of Stress Wave Propagation Through a Rock Mass. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3807-3815.	2.6	7
64	Spatially distributed damage in sandstone under stress-freeze-thaw coupling conditions. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1910-1922.	3.7	7
65	Investigation of three different cooling treatments on dynamic mechanical properties and fragmentation characteristics of granite subjected to thermal cycling. <i>Underground Space (China)</i> , 2022, 7, 847-861.	3.4	6
66	Effects of cooling thermal shock on the P-wave velocity of granite and its microstructure analysis under immersion in water, half immersion in water, and near-water cooling conditions. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	1.6	6
67	Determination of Wave Propagation Coefficients of the Granite by High-Speed Digital Image Correlation (HDIC). <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 4497-4505.	2.6	6
68	Simulation of viscoelastic behavior of defected rock by using numerical manifold method. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2011, 5, 199-207.	0.4	5
69	Equivalent Viscoelastic Behavior of High-Temperature Granite Under Seismic Wave. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 967-979.	2.6	5
70	Effective velocity of reflected wave in rock mass with different wave impedances of normal incidence of stress wave. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 0, , .	1.7	5
71	Dual-Mesh Three Characteristic Lines Method for Stress Wave Propagation Through a Microdefected Rock Mass with a Thin-Layer Filled Macrojoint. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 6621-6632.	2.6	4
72	Degradation of Mechanical Behavior of Sandstone under Freeze-Thaw Conditions with Different Low Temperatures. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10653.	1.3	4

#	ARTICLE	IF	CITATIONS
73	Research on the establishment of gas channeling barrier for preventing SCP caused by cyclic loading-unloading in shale gas horizontal wells. Journal of Petroleum Science and Engineering, 2022, 208, 109640.	2.1	3
74	Theoretical Investigation on Thermo-mechanical Stresses in Laminated Cylindrical Panels. Journal of Thermoplastic Composite Materials, 2010, 23, 111-136.	2.6	2
75	Influences of Morphology Parameters on the Contact Behavior of a Steel Interface. International Journal of Applied Mechanics, 2020, 12, 2050009.	1.3	2
76	Investigation of wave reflection at the joint with different wave impedances on two sides. Waves in Random and Complex Media, 0, , 1-17.	1.6	2
77	Critical Angles of Obliquely Incident Stress Wave Through a Single Joint with Different Mediums on Both Sides. Rock Mechanics and Rock Engineering, 0, , .	2.6	1
78	A New Equivalent Medium Model for P-Wave Propagation Through Rock Mass with Parallel Joints. , 2009, , .		0