

Jian Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183
papers

10,132
citations

59
h-index

94
g-index

194
ext. papers

11,945
ext. citations

4.6
avg, IF

6.79
L-index

#	Paper	IF	Citations
183	A Dielectric-Loaded Converging Waveguide Antenna for Microwave Fracturing of Hard Rocks. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	2
182	Dynamic Deformation, Damage, and Fracture in Geomaterials 2022 , 379-422		0
181	Application of the four-dimensional lattice spring model in direct shear testing of intact rock. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 861, 032031	0.3	1
180	Numerical investigation of blast-induced fractures in granite: insights from a hybrid LS-DYNA and UDEC grain-based discrete element method. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021 , 7, 1	3.8	6
179	Dynamic Deformation, Damage, and Fracture in Geomaterials 2021 , 1-44		2
178	Rate dependency mechanism of crystalline rocks induced by impacts: Insights from grain-scale fracturing and micro heterogeneity. <i>International Journal of Impact Engineering</i> , 2021 , 155, 103855	4	4
177	Novel Three-dimensional Rock Dynamic Tests Using the True Triaxial Electromagnetic Hopkinson Bar System. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 2079-2086	5.7	5
176	Enhanced rock breakage by pulsed laser induced cavitation bubbles: preliminary experimental observations and conclusions. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2020 , 6, 1	3.8	4
175	Effects of a set of parallel joints with unequal close-open behavior on stress wave energy attenuation. <i>Waves in Random and Complex Media</i> , 2020 , 1-25	1.9	4
174	Propagation of Stress Waves Through Fully Saturated Rock Joint Under Undrained Conditions and Dynamic Response Characteristics of Filling Liquid. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 3637-3655	5.7	12
173	Development of a 3D Hybrid Finite-Discrete Element Simulator Based on GPGPU-Parallelized Computation for Modelling Rock Fracturing Under Quasi-Static and Dynamic Loading Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 1079-1112	5.7	40
172	An overview of particle-based numerical manifold method and its application to dynamic rock fracturing. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019 , 11, 684-700	5.3	9
171	A Novel Experimental Method to Investigate the Seismic Response of Rock Joints Under Obliquely Incident Wave. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 3459-3466	5.7	5
170	A review of mechanisms of induced earthquakes: from a view of rock mechanics. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2019 , 5, 171-196	3.8	26
169	Dynamic tensile behaviours of heterogeneous rocks: The grain scale fracturing characteristics on strength and fragmentation. <i>International Journal of Impact Engineering</i> , 2018 , 118, 98-118	4	58
168	A numerical study of rock scratch tests using the particle-based numerical manifold method. <i>Tunnelling and Underground Space Technology</i> , 2018 , 78, 106-114	5.7	14
167	Rock Slope Stability and Stabilization Analysis Using the Coupled DDA and FEM Method: NDDA Approach. <i>International Journal of Geomechanics</i> , 2018 , 18, 04018044	3.1	16

166	Revisiting statistical correlation between Mohr-Coulomb shear strength parameters of Hoek-Brown rock masses. <i>Tunnelling and Underground Space Technology</i> , 2018 , 77, 36-44	5.7	3
165	The mechanism of hysteretic ground settlement caused by shield tunneling in mixed-face conditions. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2018 , 4, 51-61	3.8	11
164	Brazilian Tensile Strength of Anisotropic Rocks: Review and New Insights. <i>Energies</i> , 2018 , 11, 304	3.1	32
163	Dynamic fragmentation of rock material: Characteristic size, fragment distribution and pulverization law. <i>Engineering Fracture Mechanics</i> , 2018 , 199, 739-759	4.2	55
162	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	5.7	15
161	A numerical study of spalling and related rockburst under dynamic disturbance using a particle-based numerical manifold method (PNMM). <i>Tunnelling and Underground Space Technology</i> , 2018 , 81, 438-449	5.7	27
160	An SHPB test study on wave propagation across rock masses with different contact area ratios of joint. <i>International Journal of Impact Engineering</i> , 2017 , 105, 109-116	4	73
159	High-Speed Photography and Digital Optical Measurement Techniques for Geomaterials: Fundamentals and Applications. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 1611-1659	5.7	68
158	Physical and mechanical behavior of granite containing pre-existing holes after high temperature treatment. <i>Archives of Civil and Mechanical Engineering</i> , 2017 , 17, 912-925	3.4	62
157	3D polycrystalline discrete element method (3PDEM) for simulation of crack initiation and propagation in granular rock. <i>Computers and Geotechnics</i> , 2017 , 90, 96-112	4.4	46
156	Effects of nozzle position and waterjet pressure on rock-breaking performance of roadheader. <i>Tunnelling and Underground Space Technology</i> , 2017 , 69, 18-27	5.7	21
155	Analysis of damage mechanisms and optimization of cut blasting design under high in-situ stresses. <i>Tunnelling and Underground Space Technology</i> , 2017 , 66, 19-33	5.7	85
154	Strength failure behavior and crack evolution mechanism of granite containing pre-existing non-coplanar holes: Experimental study and particle flow modeling. <i>Computers and Geotechnics</i> , 2017 , 88, 182-198	4.4	89
153	Fracture pressure model for inclined wells in layered formations with anisotropic rock strengths. <i>Journal of Petroleum Science and Engineering</i> , 2017 , 149, 393-408	4.4	38
152	Analytical Time-Domain Solution of Plane Wave Propagation Across a Viscoelastic Rock Joint. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 2731-2747	5.7	11
151	Three-Dimensional DDA and DLSM Coupled Approach for Rock Cutting and Rock Penetration. <i>International Journal of Geomechanics</i> , 2017 , 17,	3.1	11
150	Particle-Based Numerical Manifold Method to Model Dynamic Fracture Process in Rock Blasting. <i>International Journal of Geomechanics</i> , 2017 , 17,	3.1	25
149	Characteristics of Clay-Abundant Shale Formations: Use of CO ₂ for Production Enhancement. <i>Energies</i> , 2017 , 10, 1887	3.1	29

148	A novel approach to precise evaluation of carbon dioxide flow behaviour in siltstone under tri-axial drained conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 34, 331-340	4.6	10
147	Three-Dimensional Numerical Simulation on Triaxial Failure Mechanical Behavior of Rock-Like Specimen Containing Two Unparallel Fissures. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 4711-4729	5.7	59
146	Damage evolution mechanisms of rock in deep tunnels induced by cut blasting. <i>Tunnelling and Underground Space Technology</i> , 2016 , 58, 257-270	5.7	112
145	A Further Study on Wave Propagation Across a Single Joint with Different Roughness. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 2701-2709	5.7	15
144	Modelling the dynamic failure of brittle rocks using a hybrid continuum-discrete element method with a mixed-mode cohesive fracture model. <i>International Journal of Impact Engineering</i> , 2016 , 87, 146-155	5.7	70
143	An introduction to connectivity concept and an example of physical connectivity evaluation for underground space. <i>Tunnelling and Underground Space Technology</i> , 2016 , 55, 205-213	5.7	32
142	Probabilistic simulations of TBM tunnelling in highly fractured and faulted rocks. <i>Tunnelling and Underground Space Technology</i> , 2016 , 57, 183-194	5.7	5
141	Stability analysis of underground oil storage caverns by an integrated numerical and microseismic monitoring approach. <i>Tunnelling and Underground Space Technology</i> , 2016 , 54, 81-91	5.7	59
140	Wave Propagation in the Vicinities of Rock Fractures Under Obliquely Incident Wave. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 1789-1802	5.7	15
139	Assessment and planning of underground space use in Singapore. <i>Tunnelling and Underground Space Technology</i> , 2016 , 55, 249-256	5.7	49
138	Theoretical model of the equivalent elastic modulus of a cobblestone-soil matrix for TBM tunneling. <i>Tunnelling and Underground Space Technology</i> , 2016 , 54, 117-122	5.7	7
137	Challenges and opportunities of using tunnel boring machines in mining. <i>Tunnelling and Underground Space Technology</i> , 2016 , 57, 287-299	5.7	59
136	Analysis and estimation of gripper TBM performances in highly fractured and faulted rocks. <i>Tunnelling and Underground Space Technology</i> , 2016 , 52, 44-61	5.7	28
135	Robust image reconstruction enhancement based on Gaussian mixture model estimation. <i>Journal of Electronic Imaging</i> , 2016 , 25, 023007	0.7	1
134	A novel collapse pressure model with mechanical-chemical coupling in shale gas formations with multi-weakness planes. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 36, 1151-1177	4.6	29
133	TBM tunnelling under adverse geological conditions: An overview. <i>Tunnelling and Underground Space Technology</i> , 2016 , 57, 4-17	5.7	86
132	Overview on vertical and directional drilling technologies for the exploration and exploitation of deep petroleum resources. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2016 , 2, 365-395	3.8	65
131	Parametric study of soil abrasivity for predicting wear issue in TBM tunneling projects. <i>Tunnelling and Underground Space Technology</i> , 2015 , 48, 43-57	5.7	39

130	Experimental Study on Wave Propagation Across a Rock Joint with Rough Surface. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 2225-2234	5-7	39
129	Strain Rate Effect on the Mechanical Behaviour of Sandstones with Different Grain Sizes. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 1883-1895	5-7	59
128	Dynamic responses of non-welded and welded rock fractures and implications for P-wave attenuation in a rock mass. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015 , 77, 174-181	6	25
127	Numerical study of the semi-circular bend dynamic fracture toughness test using discrete element models. <i>Science China Technological Sciences</i> , 2015 , 58, 1587-1595	3-5	13
126	Wellbore stability analysis and well path optimization based on the breakout width model and Mogi-Coulomb criterion. <i>Journal of Petroleum Science and Engineering</i> , 2015 , 135, 678-701	4-4	64
125	UDEC-AUTODYN Hybrid Modeling of a Large-Scale Underground Explosion Test. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 737-747	5-7	45
124	Effect of Water Content on P-Wave Attenuation Across a Rock Fracture Filled with Granular Materials. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 867-871	5-7	22
123	TBM performance and disc cutter wear prediction based on ten years experience of TBM tunnelling in Iran. <i>Geomechanik Und Tunnelbau</i> , 2015 , 8, 239-247	0.6	34
122	EPB tunneling challenges in bouldery ground: a new experience on the Tabriz metro line 1, Iran. <i>Bulletin of Engineering Geology and the Environment</i> , 2014 , 73, 429-440	4	20
121	A Review of Dynamic Experimental Techniques and Mechanical Behaviour of Rock Materials. <i>Rock Mechanics and Rock Engineering</i> , 2014 , 47, 1411-1478	5-7	565
120	A new parameter to describe the persistency of non-persistent joints. <i>Engineering Geology</i> , 2014 , 181, 71-77	6	20
119	Introduction of an empirical TBM cutter wear prediction model for pyroclastic and mafic igneous rocks; a case history of Karaj water conveyance tunnel, Iran. <i>Tunnelling and Underground Space Technology</i> , 2014 , 43, 222-231	5-7	64
118	Study on wave propagation across a single rough fracture by the modified thin-layer interface model. <i>Journal of Applied Geophysics</i> , 2014 , 110, 106-114	1-7	12
117	Study on rock mass boreability by TBM penetration test under different in situ stress conditions. <i>Tunnelling and Underground Space Technology</i> , 2014 , 43, 413-425	5-7	55
116	A new model for TBM performance prediction in blocky rock conditions. <i>Tunnelling and Underground Space Technology</i> , 2014 , 43, 440-452	5-7	66
115	Quasi-static and dynamic fracture behaviour of rock materials: phenomena and mechanisms. <i>International Journal of Fracture</i> , 2014 , 189, 1-32	2-3	97
114	2D numerical simulation on excavation damaged zone induced by dynamic stress redistribution. <i>Tunnelling and Underground Space Technology</i> , 2014 , 43, 315-326	5-7	67
113	Role of filling materials in a P-wave interaction with a rock fracture. <i>Engineering Geology</i> , 2014 , 172, 77-84	4	45

112	Numerical study on tunnel damage subject to blast-induced shock wave in jointed rock masses. <i>Tunnelling and Underground Space Technology</i> , 2014 , 43, 88-100	5.7	99
111	A multiscale manifold method using particle representations of the physical domain. <i>Geomechanics and Geoengineering</i> , 2014 , 9, 124-132	1.4	4
110	An unload-induced direct-shear model for granular gouge friction in rock discontinuities. <i>Review of Scientific Instruments</i> , 2014 , 85, 093902	1.7	8
109	A Dynamic-induced Direct-shear Model for Dynamic Triggering of Frictional Slip on Simulated Granular Gouges. <i>Experimental Mechanics</i> , 2014 , 54, 605-613	2.6	19
108	Particle manifold method (PMM): A new continuum-discontinuum numerical model for geomechanics. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013 , 37, 1711-1736	4	25
107	Parallelization of the distinct lattice spring model. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013 , 37, 51-74	4	29
106	Obliquely incident wave propagation across rock joints with virtual wave source method. <i>Journal of Applied Geophysics</i> , 2013 , 88, 23-30	1.7	42
105	Seismic response of adjacent filled parallel rock fractures with dissimilar properties. <i>Journal of Applied Geophysics</i> , 2013 , 96, 33-37	1.7	20
104	A thin-layer interface model for wave propagation through filled rock joints. <i>Journal of Applied Geophysics</i> , 2013 , 91, 31-38	1.7	51
103	Dynamic response of a rock fracture filled with viscoelastic materials. <i>Engineering Geology</i> , 2013 , 160, 1-7	6	51
102	Effect of loading rate on fracture toughness and failure micromechanisms in marble. <i>Engineering Fracture Mechanics</i> , 2013 , 102, 288-309	4.2	180
101	A newly developed soil abrasion testing method for tunnelling using shield machines. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2013 , 46, 63-74	1.4	24
100	Case studies of TBM tunneling performance in rock-soil interface mixed ground. <i>Tunnelling and Underground Space Technology</i> , 2013 , 38, 140-150	5.7	81
99	A further study on seismic response of a set of parallel rock fractures filled with viscoelastic materials. <i>Geophysical Journal International</i> , 2013 , 192, 671-675	2.6	37
98	Analysis and prediction of TBM performance in blocky rock conditions at the L�schberg Base Tunnel. <i>Tunnelling and Underground Space Technology</i> , 2013 , 33, 131-142	5.7	100
97	Influence of the geometry of partially-spanning joints on mechanical properties of rock in uniaxial compression. <i>Engineering Geology</i> , 2013 , 167, 134-147	6	58
96	Determination of mechanical properties and full-field strain measurements of rock material under dynamic loads. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013 , 60, 423-439	6	233
95	Suggested methods for determining the dynamic strength parameters and mode-I fracture toughness of rock materials. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012 , 49, 105-112	6	416

94	Rock burst and slabbing failure and its influence on TBM excavation at headrace tunnels in Jinping II hydropower station. <i>Engineering Geology</i> , 2012 , 124, 98-108	6	146
93	Modelling the time-dependent rheological behaviour of heterogeneous brittle rocks. <i>Geophysical Journal International</i> , 2012 , 189, 1781-1796	2.6	74
92	Study of wave attenuation across parallel fractures using propagator matrix method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012 , 36, 1264-1279	4	25
91	Wave propagation across rock joints filled with viscoelastic medium using modified recursive method. <i>Journal of Applied Geophysics</i> , 2012 , 86, 82-87	1.7	53
90	Modelling P-wave transmission across rock fractures by particle manifold method (PMM). <i>Geomechanics and Geoengineering</i> , 2012 , 7, 175-181	1.4	11
89	Modeling of Rheological Deformation of Inhomogeneous Rock and Associated Time-Dependent Response of Tunnels. <i>International Journal of Geomechanics</i> , 2012 , 12, 147-159	3.1	25
88	Some Fundamental Issues and Verification of 3DEC in Modeling Wave Propagation in Jointed Rock Masses. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 943-951	5.7	36
87	Loading Rate Dependency of Dynamic Responses of Rock Joints at Low Loading Rate. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 421-426	5.7	39
86	A time-domain recursive method to analyse transient wave propagation across rock joints. <i>Geophysical Journal International</i> , 2012 , 188, 631-644	2.6	64
85	A coupled distinct lattice spring model for rock failure under dynamic loads. <i>Computers and Geotechnics</i> , 2012 , 42, 1-20	4.4	18
84	Two-Dimensional DDA Contact Constitutive Model for Simulating Rock Fragmentation. <i>Journal of Engineering Mechanics - ASCE</i> , 2012 , 138, 199-209	2.4	78
83	A MLS-BASED LATTICE SPRING MODEL FOR SIMULATING ELASTICITY OF MATERIALS. <i>International Journal of Computational Methods</i> , 2012 , 09, 1250037	1.1	12
82	A Discrete Element Model for Predicting Shear Strength and Degradation of Rock Joint by Using Compressive and Tensile Test Data. <i>Rock Mechanics and Rock Engineering</i> , 2011 , 45, 695	5.7	14
81	Seismic response of a single and a set of filled joints of viscoelastic deformational behaviour. <i>Geophysical Journal International</i> , 2011 , 186, 1315-1330	2.6	79
80	Analysis of Stochastic Seismic Wave Interaction with a Slippery Rock Fault. <i>Rock Mechanics and Rock Engineering</i> , 2011 , 44, 85-92	5.7	28
79	Validation study of the distinct lattice spring model (DLSM) on P-wave propagation across multiple parallel joints. <i>Computers and Geotechnics</i> , 2011 , 38, 298-304	4.4	29
78	A new hard rock TBM performance prediction model for project planning. <i>Tunnelling and Underground Space Technology</i> , 2011 , 26, 595-603	5.7	155
77	A 3D distinct lattice spring model for elasticity and dynamic failure. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2011 , 35, 859-885	4	192

76	Three-phase medium model for filled rock joint and interaction with stress waves. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2011 , 35, 97-110	4	35
75	Stress wave interaction with a nonlinear and slippery rock joint. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011 , 48, 493-500	6	10
74	Normally incident wave propagation across a joint set with the virtual wave source method. <i>Journal of Applied Geophysics</i> , 2011 , 73, 283-288	1.7	40
73	Parallel computation for debonding process of externally FRP plated concrete. <i>Structural Engineering and Mechanics</i> , 2011 , 38, 803-823		3
72	A NUMERICAL MANIFOLD METHOD FOR PLANE MICROPOLAR ELASTICITY. <i>International Journal of Computational Methods</i> , 2010 , 07, 151-166	1.1	13
71	An equivalent viscoelastic model for rock mass with parallel joints. <i>Journal of Geophysical Research</i> , 2010 , 115,		53
70	Dynamic Fracturing Simulation of Brittle Material using the Distinct Lattice Spring Method with a Full Rate-Dependent Cohesive Law. <i>Rock Mechanics and Rock Engineering</i> , 2010 , 43, 717-726	5.7	32
69	Theoretical Methods for Wave Propagation across Jointed Rock Masses. <i>Rock Mechanics and Rock Engineering</i> , 2010 , 43, 799-809	5.7	36
68	Micromechanical parameters in bonded particle method for modelling of brittle material failure. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2010 , 34, 1877-1895	4	191
67	Analytical and numerical study of the effect of water pressure on the mechanical response of cylindrical lined tunnels in elastic and elasto-plastic porous media. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009 , 46, 531-547	6	39
66	Development of a rock mass characteristics model for TBM penetration rate prediction. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009 , 46, 8-18	6	186
65	On the Truly Meshless Solution of Heat Conduction Problems in Heterogeneous Media. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2009 , 55, 1-13	1.3	23
64	UDEC modelling on wave propagation across fractured rock masses. <i>Computers and Geotechnics</i> , 2008 , 35, 97-104	4.4	87
63	Simulation of failure process of jointed rock. <i>Central South University</i> , 2008 , 15, 888-894		21
62	Dynamic Model of Fracture Normal Behaviour and Application to Prediction of Stress Wave Attenuation Across Fractures. <i>Rock Mechanics and Rock Engineering</i> , 2008 , 41, 671-693	5.7	40
61	Response by the authors to R.M. Goktan discussion to the paper: Q.M. Gong and J. Zhao (2007). Influence of rock brittleness on TBM penetration rate in Singapore granite, Tunnelling and Underground Space Technology, Vol. 22, pp. 317B24. <i>Tunnelling and Underground Space Technology</i> , 2008 , 23, 217-218	5.7	0
60	Monitoring of rocks using smart sensors. <i>Tunnelling and Underground Space Technology</i> , 2007 , 22, 206-221	5.7	51
59	In situ TBM penetration tests and rock mass boreability analysis in hard rock tunnels. <i>Tunnelling and Underground Space Technology</i> , 2007 , 22, 303-316	5.7	72

58	Influence of rock brittleness on TBM penetration rate in Singapore granite. <i>Tunnelling and Underground Space Technology</i> , 2007 , 22, 317-324	5.7	113
57	Tunnelling through a frequently changing and mixed ground: A case history in Singapore. <i>Tunnelling and Underground Space Technology</i> , 2007 , 22, 388-400	5.7	144
56	Experimental study on prediction model for maximum rebound ratio. <i>Central South University</i> , 2007 , 14, 115-119		
55	Viscous boundary of DDA for modeling stress wave propagation in jointed rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2007 , 44, 1070-1076	6	79
54	Prediction model of tunnel boring machine performance by ensemble neural networks. <i>Geomechanics and Geoengineering</i> , 2007 , 2, 123-128	1.4	39
53	Numerical study on maximum rebound ratio in blasting wave propagation along radian direction normal to joints. <i>Central South University</i> , 2006 , 13, 743-748		7
52	P-wave transmission across fractures with nonlinear deformational behaviour. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2006 , 30, 1097-1112	4	66
51	Normal Transmission of S-Wave Across Parallel Fractures with Coulomb Slip Behavior. <i>Journal of Engineering Mechanics - ASCE</i> , 2006 , 132, 641-650	2.4	46
50	Transmission ratio (Tn) in the radian direction normal to joints in 2-D compressional wave propagation in rock masses. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2006 , 13, 199-206		3
49	Numerical Simulation on Rock Cutter Performance in Mixed Ground 2006 , 199		5
48	A further study of P-wave attenuation across parallel fractures with linear deformational behaviour. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2006 , 43, 776-788	6	100
47	Numerical modelling of the effects of joint spacing on rock fragmentation by TBM cutters. <i>Tunnelling and Underground Space Technology</i> , 2006 , 21, 46-55	5.7	147
46	Dynamic asymmetrical instability of elastic-plastic beams. <i>International Journal of Mechanical Sciences</i> , 2005 , 47, 43-62	5.5	12
45	Numerical modeling of the effects of joint orientation on rock fragmentation by TBM cutters. <i>Tunnelling and Underground Space Technology</i> , 2005 , 20, 183-191	5.7	166
44	Structural health monitoring of underground facilities Technological issues and challenges. <i>Tunnelling and Underground Space Technology</i> , 2005 , 20, 487-500	5.7	107
43	Hydrofracturing in situ stress measurements in Singapore granite. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005 , 42, 577-583	6	25
42	Dynamic Characteristics of Granite Subjected to Intermediate Loading Rate. <i>Rock Mechanics and Rock Engineering</i> , 2005 , 38, 21-39	5.7	287
41	Nonlinear System Modeling and Velocity Feedback Compensation for Effective Force Testing. <i>Journal of Engineering Mechanics - ASCE</i> , 2005 , 131, 244-253	2.4	20

40	Numerical Investigation of Joint Effect on Shock Wave Propagation in Jointed Rock Masses. <i>Journal of Testing and Evaluation</i> , 2005 , 33, 12680	1	19
39	On modelling of incident boundary for wave propagation in jointed rock masses using discrete element method. <i>Computers and Geotechnics</i> , 2004 , 31, 57-66	4.4	56
38	Identification of dynamic rock properties using a genetic algorithm. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004 , 41, 453	6	3
37	New formulation and validation of the three-dimensional extension of a static relaxation method. <i>Advances in Engineering Software</i> , 2004 , 35, 317-323	3.6	20
36	A hydrogeological study of the Sembawang hot spring in Singapore. <i>Bulletin of Engineering Geology and the Environment</i> , 2002 , 61, 59-71	4	4
35	A Unified Strength criterion for rock material. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2002 , 39, 975-989	6	142
34	Modeling of Tunnel Excavation Using a Hybrid DEM/BEM Method. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2002 , 17, 381-386	8.4	10
33	Transmission of Elastic P-waves across Single Fractures with a Nonlinear Normal Deformational Behavior. <i>Rock Mechanics and Rock Engineering</i> , 2001 , 34, 3-22	5.7	140
32	Statistical Analysis of Anisotropic Damage of the Bukit Timah Granite. <i>Rock Mechanics and Rock Engineering</i> , 2001 , 34, 23-38	5.7	7
31	Effect of large excavation on deformation of adjacent MRT tunnels. <i>Tunnelling and Underground Space Technology</i> , 2001 , 16, 93-98	5.7	133
30	Analytical simulation of the dynamic compressive strength of a granite using the sliding crack model. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2001 , 25, 853-869	4	11
29	Hugoniot equation of state of the Bukit Timah granite. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2000 , 37, 705-713	6	19
28	Effects of multiple parallel fractures on apparent attenuation of stress waves in rock masses. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2000 , 37, 661-682	6	162
27	Experimental determination of dynamic tensile properties of a granite. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2000 , 37, 861-866	6	105
26	Micromechanical modelling of the mechanical properties of a granite under dynamic uniaxial compressive loads. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2000 , 37, 923-935	6	78
25	Oscillation elimination in the Hopkinson bar apparatus and resultant complete dynamic stress-strain curves for rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2000 , 37, 1055-1060	6	158
24	Applicability of Mohr-Coulomb and Hoek-Brown strength criteria to the dynamic strength of brittle rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2000 , 37, 1115-1121	6	182
23	UDEC modeling of a field explosion test. <i>International Journal for Blasting and Fragmentation</i> , 2000 , 4, 149-163		5

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