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Modelling brittle failure of rock

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#	Paper	IF	Citations
390	Modelling brittle failure of rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2002 , 39, 731-741	6	334
389	Brittleness of rock and stability assessment in hard rock tunneling. 2003 , 18, 35-48		202
388	Mobilised strength components in brittle failure of rock. 2003 , 53, 327-336		43
387	Innovative laboratory testing. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004 , 41, 1427-1445	6	80
386	StressEtrainElectrical resistance effects and associated state equations for uniaxial rock compression. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004 , 41, 223-236	6	33
385	Rock Mechanics for underground mining. 2004 ,		22
384	Simulation of progressive fracturing processes around underground excavations under biaxial compression. 2005 , 20, 231-247		114
383	Principle of analysis of brittle-plastic rock mass. 2005 , 42, 139-158		21
382	A meaningful expression between bond work index, grindability index and friability value. 2005 , 18, 10	057-10!	59 18
381	Comparison of Numerical and Physical Models for Understanding Shear Fracture Processes. 2006 , 163, 1153-1174		3
380	A new discrete fracture modelling approach for rock masses. 2007 , 57, 757-766		27
379	Rock salt dilatancy boundary from combined acoustic emission and triaxial compression tests. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2007 , 44, 108-119	6	100
378	The 2003 Canadian Geotechnical Colloquium: Mechanistic interpretation and practical application of damage and spalling prediction criteria for deep tunnelling. 2007 , 44, 1082-1116		320
377	Effects of model scale and particle size on micro-mechanical properties and failure processes of rocks particle mechanics approach. 2007 , 31, 458-472		114
376	Simulating excavation damaged zone around a circular opening under hydromechanical conditions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008 , 45, 815-830	6	52
375	Strength evolution law of cracked rock based on localized progressive damage model. 2008 , 15, 493-4	97	5
374	A strain-softening numerical model of core discing and damage. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008 , 45, 329-350	6	40

(2010-2009)

373	A numerical method for the study of shear band propagation in soft rocks. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2009 , 33, 1561-1587	4	5
372	Numerical Analyses of the Influence of Blast-Induced Damaged Rock Around Shallow Tunnels in Brittle Rock. <i>Rock Mechanics and Rock Engineering</i> , 2009 , 42, 421-448	5.7	41
371	Brittle Rock Failure in the Steg Lateral Adit of the LEschberg Base Tunnel. <i>Rock Mechanics and Rock Engineering</i> , 2009 , 42, 341-359	5.7	40
370	Estimating the potential for spalling around a deep nuclear waste repository in crystalline rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009 , 46, 219-228	6	156
369	Compressive failure model for brittle rocks by shear faulting and its evolution of strength components. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009 , 46, 830-841	6	12
368	Modeling Lac du Bonnet granite using a discrete element model. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009 , 46, 1124-1135	6	113
367	Numerical modelling of observed fallouts in hard rock masses using an instantaneous cohesion-softening friction-hardening model. 2009 , 24, 398-409		47
366	Numerical modelling of the gravity-induced destabilization of a slope: The example of the La Clapile landslide, southern France. 2009 , 109, 86-93		24
365	Modeling Triaxial Test on Intact Rock Using Discrete Element Method with Membrane Boundary. Journal of Engineering Mechanics - ASCE, 2009, 135, 1029-1037	2.4	31
364	Influence of plastic shear strain and confinement-dependent rock dilation on rock failure and displacement near an excavation boundary. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2010 , 47, 723-738	6	47
363	Crushing failure in hollow cylinders made of quasi-brittle materials. 2010 , 88, 426-436		4
362	Rockburst characteristics and numerical simulation based on a new energy index: a case study of a tunnel at 2,500 m depth. <i>Bulletin of Engineering Geology and the Environment</i> , 2010 , 69, 381-388	4	149
361	Different Approaches for Simulating Brittle Failure in Two Hard Rock Mass Cases: A Parametric Study. <i>Rock Mechanics and Rock Engineering</i> , 2010 , 43, 151-165	5.7	22
360	Calibration of a discrete element model for intact rock up to its peak strength. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2010 , 34, 447-469	4	73
359	A microcrack damage model for brittle rocks under uniaxial compression. 2010 , 37, 399-405		46
358	A new practical method for prediction of geomechanical failure-time. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2010 , 47, 1079-1090	6	68
357	Reliability analysis of circular tunnel under hydrostatic stress field. <i>Computers and Geotechnics</i> , 2010 , 37, 50-58	4.4	87
356	Regional-scale relief evolution and large landslides: Insights from geomechanical analyses in the Tin Valley (southern French Alps). 2010 , 117, 121-129		35

355 Study on deterioration law of rock strength parameters based on PFC simulation method. **2011**, 151-154

354	Concluding remarks. 2011 , 450-452		
353	Experimental and numerical analyses of an opening in a jointed rock mass under biaxial compression. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011 , 48, 1055-1067	6	75
352	A coupled 3D thermofluid E hermomechanical analysis of a planar type production scale SOFC stack. 2011 , 36, 11914-11928		45
351	Numerical study on energy transformation in granular matter under biaxial compression. 2011 , 13, 503-	·510	27
350	Influence of Sample Height-to-Width Ratios on Failure Mode for Rectangular Prism Samples of Hard Rock Loaded In Uniaxial Compression. <i>Rock Mechanics and Rock Engineering</i> , 2011 , 44, 253-267	5.7	54
349	An Index for Estimating the Stability of Brittle Surrounding Rock Mass: FAI and its Engineering Application. <i>Rock Mechanics and Rock Engineering</i> , 2011 , 44, 401-414	5.7	66
348	A finite element implementation of strain-softening rock mass. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011 , 48, 67-76	6	45
347	Simulation of Fracturing Process for Heterogeneous Material under Uniaxial Compression. 2011 , 194-196, 930-934		
346	Strain Soft Numerical Simulation for Destroy Process of Subsea Rock with High Ground Stress and Hydraulic Pressure. 2011 , 204-210, 341-345		1
345	Tempo-spatial characteristics and influential factors of rockburst: a case study of transportation and drainage tunnels in Jinping II hydropower station. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2011 , 3, 179-185	5.3	13
344	Experimental study and constitutive modelling of rock dilatancyBulking behaviour. 2011 , 15, s551-s556		
343	SpatialEemporal feature of stress field evolution for Jinping II marble excavation in high stress zone. 2011 , 15, s535-s538		O
342	FRACOD Modeling of Rock Fracturing and Permeability Change in Excavation-Damaged Zones. 2011 , 11, 302-313		28
341	Study on Rockmass Deterioration Model Based on the Unified Strength Theory. 2012 , 468-471, 2521-25	27	
340	PFC/FLAC Coupled Numerical Simulation of Excavation Damage Zone in Deep Schist Tunnel. 2012 , 236-237, 622-626		3
339	Three Dimensional Elastic-Plastic Numerical Simulation of Tunnel Excavation Sequence of Dalian Speed Railway. 2012 , 170-173, 1474-1478		
338	Application of Nanotechnology on Borehole Wall Stability in Gas-Liquid Medium Transition during Gas Drilling. 2012 ,		1

Studying the Three Dimensional Excavation Effect Affecting the Monitoring Displacement of Metro Station. **2012**, 594-597, 1285-1289

336	The 2006 Eiger rockslide, European Alps. 282-296		7
335	Application of a transversely isotropic brittle rock mass model in roof support design. <i>International Journal of Mining Science and Technology</i> , 2012 , 22, 639-643	7.1	3
334	Prediction and follow-up of failure and fallouts in footwall drifts in the Kiirunavaara mine. 2012, 49, 546	-559	13
333	Evidence for earthquake triggering of large landslides in coastal Oregon, USA. 2012 , 141-142, 88-98		21
332	Experimental laboratory tests focused on rock characterisation for mechanical excavation. 2012 , 26, 199-216		6
331	Analysis of Fracture Mechanics Tests on Opalinus Clay. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 767	5.7	11
330	A Top Pilot Tunnel Preconditioning Method for the Prevention of Extremely Intense Rockbursts in Deep Tunnels Excavated by TBMs. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 289-309	5.7	58
329	Numerical modelling of the effects of weak immediate roof lithology on coal mine roadway stability. 2012 , 90-91, 100-109		119
328	Influence of water content and anisotropy on the strength and deformability of low porosity meta-sedimentary rocks under triaxial compression. <i>Engineering Geology</i> , 2012 , 126, 46-66	6	124
327	Strain-softening analysis of a spherical cavity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012 , 36, 182-202	4	22
326	Brittle Rock Property and Damage Index Assessment for Predicting Brittle Failure in Excavations. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 251-257	5.7	14
325	Experimental Study of Brittle Behavior of Clay Shale in Rapid Triaxial Compression. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 21-33	5.7	70
324	Failure behavior of highly stressed rocks under quasi-static and intensive unloading conditions. Journal of Rock Mechanics and Geotechnical Engineering, 2013 , 5, 287-293	5.3	12
323	Experimental study and numerical modeling of brittle fracture of carbonate rock under uniaxial compression. 2013 , 50, 58-62		31
322	Rockmass damage development following two extremely intense rockbursts in deep tunnels at Jinping II hydropower station, southwestern China. <i>Bulletin of Engineering Geology and the Environment</i> , 2013 , 72, 237-247	4	51
321	Use of fuzzy probability theory to assess spalling occurrence in underground openings. International Journal of Rock Mechanics and Minings Sciences, 2013, 64, 60-67	6	2
320	Long-term dynamics of rockslides and damage propagation inferred from mechanical modeling. 2013 , 118, 2292-2307		25

319	Mechanical behavior of high strength granite for new prestressed stone structures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013 , 60, 452-460	6	6
318	Influence of rock failure and damage on in situ stress measurements in brittle rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013 , 61, 118-129	6	9
317	MICROMECHANICS DAMAGE MODELING OF BRITTLE ROCK FAILURE PROCESSES UNDER COMPRESSION. 2013 , 10, 1350034		7
316	A DEM model for soft and hard rocks: Role of grain interlocking on strength. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 352-369	5	162
315	Geological Hazard Tendency Analysis of Room and Pillar Mining Method Based on Energy Index. 2013 , 353-356, 2373-2376		
314	Applications of Finite/Discrete Element Modeling to Rock Engineering Problems. 2013 , 13, 565-580		50
313	Ultrasonic Curable Nanoparticles Strengthening Technique While Drilling. 2013,		3
312	Verification of a laboratory-based dilation model for in situ conditions using continuum models. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2014 , 6, 522-534	5.3	23
311	3D random Voronoi grain-based models for simulation of brittle rock damage and fabric-guided micro-fracturing. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2014 , 6, 506-521	5.3	127
310	Numerical Simulation Study on the Delay of Rockburst Based on Rock Mass Stress Release Rate. 2014 , 501-504, 20-26		1
309	Damage characterization during laboratory strength testing: A 3D-finite-discrete element approach. <i>Computers and Geotechnics</i> , 2014 , 60, 33-46	4.4	35
308	A new contact model to improve the simulated ratio of unconfined compressive strength to tensile strength in bonded particle models. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014 , 69, 111-119	6	80
307	Rock mass damage induced by rockbursts occurring on tunnel floors: a case study of two tunnels at the Jinping II Hydropower Station. 2014 , 71, 441-450		20
306	Void-induced liner deformation and stress redistribution. 2014 , 40, 263-276		49
305	Development of an elasto-plastic constitutive model for intact rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014 , 66, 1-12	6	71
304	Laboratory observation and numerical simulation of permeability evolution during progressive failure of brittle rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014 , 68, 167-176	6	39
303	A physical and numerical investigation of the failure mechanism of weak rocks surrounding tunnels. <i>Computers and Geotechnics</i> , 2014 , 61, 292-307	4.4	47
302	Numerical study on deep-seated gravitational slope deformation in a shale-dominated dip slope due to river incision. <i>Engineering Geology</i> , 2014 , 179, 59-75	6	34

301	Distinct element method simulation of an analogue for a highly interlocked, non-persistently jointed rockmass. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014 , 71, 117-130	6	94
300	2D numerical simulation on excavation damaged zone induced by dynamic stress redistribution. 2014 , 43, 315-326		67
299	Study on splitting failure in rock masses by simulation test, site monitoring and energy model. 2014 , 41, 152-164		34
298	Post-yield plastic frictional parameters of a rock salt using the concept of mobilized strength. <i>Engineering Geology</i> , 2014 , 177, 25-31	6	17
297	Estimation of input parameters for CWFS model using RSM. 2014 , 147-152		
296	Distinct element method simulation of stress fracturing around an underground opening. 2014 , 499-50)4	
295	Numerical study on 4-1 coal seam of Xiaoming mine in ascending mining. 2015 , 2015, 516095		4
294	A new method to estimate location and slip of simulated rock failure events. 2015 , 651-652, 35-43		8
293	Numerical simulation of drilling-induced core damage and its influence on mechanical properties of rocks under unconfined condition. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015 , 80, 40-50	6	12
292	Effects of spatial variation in cohesion over the concrete-rock interface on dam sliding stability. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2015 , 7, 659-667	5.3	25
291	Numerical simulation of triaxial compression test for brittle rock sample using a modified constitutive law considering degradation and dilation behavior. 2015 , 22, 3097-3107		16
2 90	A statistical meso-damage mechanical method for modeling trans-scale progressive failure process of rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015 , 74, 133-150	6	76
289	Use of the equivalent continuum approach to model the behavior of a rock mass containing an interlayer shear weakness zone in an underground cavern excavation. 2015 , 47, 35-51		23
288	Evolution of cohesion and friction angle during microfracture accumulation in rock. 2015 , 77, 497-510		11
287	A Laboratory-Testing-Based Study on the Strength, Deformability, and Dilatancy of Carbonate Rocks at Low Confinement. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 941-958	5.7	64
286	A mine shaft case study on the accurate prediction of yield and displacements in stressed ground using lab-derived material properties. 2015 , 49, 98-113		21
285	Numerical study on progressive failure of hard rock samples with an unfilled undulate joint. <i>Engineering Geology</i> , 2015 , 193, 173-182	6	31
284	Rock Strength Anisotropy in High Stress Conditions: A Case Study for Application to Shaft Stability Assessments. 2015 , 37, 115-125		7

283	A New Model for the Dilation of Brittle Rocks Based on Laboratory Compression Test Data with Separate Treatment of Dilatancy Mobilization and Decay. 2015 , 33, 661-679		34
282	EDZ formation and associated hydromechanical behaviour around ED-B tunnel: A numerical study based on a two-part Hooke model (TPHM). 2015 , 19, 318-331		2
281	Modeling porous rock fracturing induced by fluid injection. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015 , 77, 133-141	6	9
280	Characterizing the influence of stress-induced microcracks on the laboratory strength and fracture development in brittle rocks using a finite-discrete element method-micro discrete fracture network FDEM-DFN approach. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2015 , 7, 609-625	5.3 5	41
279	Study of Acoustic Emission in a Compression Test of Andesite Rock. 2015 , 9, 292-297		14
278	Characterization of strength and damage of hard rock pillars using a synthetic rock mass method. <i>Computers and Geotechnics</i> , 2015 , 65, 56-72	4.4	22
277	Underground Excavation Behaviour of the Queenston Formation: Tunnel Back Analysis for Application to Shaft Damage Dimension Prediction. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 164	17 ⁵ -767	1 ¹⁶
276	Numerical study of the evolution of cohesion and internal friction in rock during the pre-peak deformation process. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 3501-3513	1.8	9
275	Analysis of spalling failure in marble rock slope: a case study of Neyriz marble mine, Iran. 2016 , 75, 1		8
274	Statistical meso-damage model for quasi-brittle rocks to account for damage tolerance principle. 2016 , 75, 1		16
273	Analytical solution for a circular opening in a rock mass obeying a three-stage stressEtrain curve. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016 , 86, 16-22	6	18
272	An elasto-plastic constitutive model for soft rock considering mobilization of strength. 2016 , 26, 822-83	34	11
271	An improved unified constitutive model for rock material and guidelines for its application in numerical modelling. <i>Computers and Geotechnics</i> , 2016 , 80, 261-282	4.4	11
270	A Reconsideration of the Extension Strain Criterion for Fracture and Failure of Rock. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 4667-4679	5.7	8
269	Effects of Micro-structure and Micro-parameters on Brazilian Tensile Strength Using Flat-Joint Model. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 3575-3595	5.7	58
268	FLAC/SPECFEM2D coupled numerical simulation of wavefields near excavation boundaries in underground mines. 2016 , 96, 147-158		10
267	Experimental study of brittleness anisotropy of shale in triaxial compression. 2016 , 36, 510-518		38
266	Assessment of roof stability in a room and pillar coal mine in the U.S. using three-dimensional distinct element method. 2016 , 59, 24-37		39

(2017-2016)

265	Influence of tunnel wall roughness and localized stress concentrations on the initiation of brittle spalling. <i>Bulletin of Engineering Geology and the Environment</i> , 2016 , 75, 1597-1607	4	5
264	Systematic study of the effects of mass and time scaling techniques applied in numerical rock mechanics simulations. 2016 , 684, 4-11		8
263	Rock Cracking Indices for Improved Tunnel Support Design: A Case Study for Columnar Jointed Rock Masses. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 2115-2130	5.7	27
262	Back analysis of a pillar monitoring experiment at 2.4 km depth in the Sudbury Basin, Canada. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016 , 85, 33-51	6	35
261	Prediction of Brittle Failure for TBM Tunnels in Anisotropic Rock: A Case Study from Northern Norway. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 2131-2153	5.7	10
260	Effects of pre-existing discontinuities on the residual strength of rock mass Insight from a discrete element method simulation. 2016 , 85, 40-50		35
259	Simplifying calibration of bonded elasto-plastic models. <i>Computers and Geotechnics</i> , 2016 , 73, 100-108	4.4	11
258	Predicting excavation damage zone depths in brittle rocks. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016 , 8, 60-74	5.3	63
257	Novel numerical strategy for solving strongly coupled elastoplastic damage models with explicit return algorithms: Application to geomaterials. 2016 , 80, 64-72		1
256	Influence of material heterogeneity on failure intensity in unstable rock failure. <i>Computers and Geotechnics</i> , 2016 , 71, 237-246	4.4	31
255	Statistical Damage Constitutive Model for Rocks Considering Residual Strength. 2017 , 17, 04016033		33
254	Numerical Modeling of Rock Damage during Indentation Process with Reference to Hard Rock Drilling. 2017 , 17, 04017002		6
253	Influence of end effect on rock strength in true triaxial compression test. 2017, 54, 862-880		21
252	Post-yield Strength and Dilatancy Evolution Across the Brittle Ductile Transition in Indiana Limestone. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 1691-1710	5.7	45
251	Constitutive representation and damage degree index for the layered rock mass excavation response in underground openings. 2017 , 64, 133-145		32
250	Tunnel support for stress induced failures in Hawkesbury Sandstone. 2017 , 64, 10-23		27
249	Coefficient of equivalent plastic strain based on the associated flow of the Drucker-Prager criterion. 2017 , 93, 15-20		11
248	Study on the criterion of time splitting of surrounding rock in underground chamber. 2017 ,		

247	Numerical simulation of the 2008 West-Bohemian earthquake swarm. 2017, 694, 436-443		10
246	A new energy index for evaluating the tendency of rockburst and its engineering application. <i>Engineering Geology</i> , 2017 , 230, 46-54	6	62
245	Plastic-strain-dependent strength model to simulate the cracking process of brittle rocks with an existing non-persistent joint. <i>Engineering Geology</i> , 2017 , 231, 114-125	6	21
244	Experimental study of the influence of loading rate on tensile mechanical behavior of sandstone damaged by blasting. <i>Arabian Journal of Geosciences</i> , 2017 , 10, 1	1.8	4
243	Processes Responsible for Localized Deformation within Porous Rocks: Insights from Laboratory Experiments and Numerical Modeling. 2017 ,		2
242	Temperature-dependent mechanical behaviour of Australian Strathbogie granite with different cooling treatments. <i>Engineering Geology</i> , 2017 , 229, 31-44	6	139
241	Calculation of parameters of combined frame and roof bolting. 2017 , 87, 052009		
240	Scale Effects Observed in Compression Testing of Stanstead Granite Including Post-peak Strength and Dilatancy. 2017 , 36, 1091		7
239	Effect of discretization at laboratory and large scales during discrete element modelling of brittle failure. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017 , 100, 48-61	6	9
238	Role of Brittle Behaviour of Soft Calcarenites Under Low Confinement: Laboratory Observations and Numerical Investigation. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 1863-1882	5.7	16
237	An enhanced equivalent continuum model for layered rock mass incorporating bedding structure and stress dependence. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017 , 97, 75-98	6	22
236	Stability design charts for homogeneous slopes under typical conditions based on the double shear strength reduction technique. <i>Arabian Journal of Geosciences</i> , 2017 , 10, 1	1.8	9
235	Polygonal grain-based distinct element modeling for mechanical behavior of brittle rock. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017 , 41, 880-898	4	17
234	Rock Mass Stability Investigation Around Tunnels in an Underground Mine in USA. 2017 , 35, 45-67		8
233	Dynamic Strength and Fracturing Behavior of Single-Flawed Prismatic Marble Specimens Under Impact Loading with a Split-Hopkinson Pressure Bar. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 29-44	5.7	90
232	A new method to evaluate the brittleness for brittle rock using crack initiation stress level from uniaxial stressEtrain curves. 2017 , 76, 1		9
231	Evaluation of TBM tunnels with respect to stability against spalling. 2017,		1
230	Protection of mine workings using compliant pillars. 2017 , 87, 052010		

Evaluation of Spalling Fallout on Excavation Disturbed Zone under Deep Hard Rock Tunnel. 2017, 229 226, 012071 Energy Evolution Characteristics and Distribution Laws of Rock Materials under Triaxial Cyclic 228 15 Loading and Unloading Compression. 2017, 2017, 1-16 Numerical Studies on the Failure Process of Heterogeneous Brittle Rocks or Rock-Like Materials 16 227 under Uniaxial Compression. 2017, 10, Extended Rigid Body Spring Network method for the simulation of brittle rocks. Computers and 226 18 4.4 Geotechnics, 2018, 99, 31-41 Influence of Stope Excavation on Drift Convergence and Support Behavior: Insights from 3D 16 225 5.7 Continuum and Discontinuum Models. Rock Mechanics and Rock Engineering, 2018, 51, 2395-2413 Cohesion degradation and friction mobilization in brittle failure of rocks. International Journal of 6 224 40 Rock Mechanics and Minings Sciences, 2018, 106, 1-13 Modeling the progressive failure of hard rock pillars. 2018, 74, 71-81 223 32 Crack Damage Parameters and Dilatancy of Artificially Jointed Granite Samples Under Triaxial 16 222 5.7 Compression. Rock Mechanics and Rock Engineering, 2018, 51, 1637-1656 Damage-Based Time-Dependent Modeling of Paraglacial to Postglacial Progressive Failure of Large 221 33 Rock Slopes. 2018, 123, 124-141 Effect of rock mass and discontinuity mechanical properties and delayed rock supporting on tunnel 6 220 37 stability in an underground mine. Engineering Geology, 2018, 238, 62-75 A review of numerical techniques approaching microstructures of crystalline rocks. 2018, 115, 167-187 219 35 Hyper-elastoplastic/damage modeling of rock with application to porous limestone. 2018, 143, 218-231 218 24 Mechanism of core discing in the relaxation zone around an underground opening under high in 6 217 4 situ stresses. Bulletin of Engineering Geology and the Environment, 2018, 77, 1179-1189 Investigation of Rock Mass Stability Around the Tunnels in an Underground Mine in USA Using 216 5.7 15 Three-Dimensional Numerical Modeling. Rock Mechanics and Rock Engineering, 2018, 51, 579-597 Fracture Evolution Around a Cavity in Brittle Rock Under Uniaxial Compression and Coupled 67 215 5.7 StaticDynamic Loads. Rock Mechanics and Rock Engineering, 2018, 51, 531-545 Influence of temperature on the brittle failure of granite in deep tunnels determined from triaxial 214 7 unloading tests. 2018, 22, s269-s285 Dilation angle variations in plastic zone around tunnels in rocks-constant or variable dilation 213 2 parameter. 2018, 25, 2550-2566 Experimental and numerical study on rockburst triggered by tangential weak cyclic dynamic 212 21 disturbance under true triaxial conditions. 2018, 81, 602-618

211	Failure Mechanism of Highly Stressed Rock Mass during Unloading Based on the Stress Arch Theory. 2018 , 18, 04018146		7
210	Investigation of shaft stability and anisotropic deformation in a deep shaft in Idaho, United States. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018 , 105, 160-171	6	18
209	The Numerical Simulation of Hard Rocks for Tunnelling Purposes at Great Depths: A Comparison between the Hybrid FDEM Method and Continuous Techniques. <i>Advances in Civil Engineering</i> , 2018 , 2018, 1-18	1.3	11
208	Review of the Relationships between Crack Initiation Stress, Mode I Fracture Toughness and Tensile Strength of Geo-Materials. 2018 , 18, 04018136		18
207	Elastic modulus deterioration index to identify the loosened zone around underground openings. 2018 , 82, 20-29		6
206	Imaging the Growth of Recent Faults: The Case of 2016 2017 Seismic Sequence Sea Bottom Deformation in the Alboran Sea (Western Mediterranean). 2018 , 37, 2513-2530		16
205	Strength Reduction Method for Slope Stability Analysis Based on a Dual Factoring Strategy. 2018 , 18, 04018123		10
204	A progressive S-shaped yield criterion and its application to rock pillar behavior. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018 , 105, 98-109	6	21
203	Mechanical analysis and interpretation of excavation damage zone formation around deep tunnels within massive rock masses using hybrid finitediscrete element approach: case of Atomic Energy of Canada Limited (AECL) Underground Research Laboratory (URL) test tunnel. 2019 , 56, 35-59		22
202	Influence of stress path on stress memory and stress fracturing in brittle rocks. 2019 , 56, 852-867		1
201	Application of the Cohesion Softening Friction Softening and the Cohesion Softening Friction Hardening Models of Rock Mass Behavior to Estimate the Specific Energy of TBM, Case Study: Amir Kabir Water Conveyance Tunnel in Iran. 2019 , 37, 375-387		2
200	Strainburst characteristics under bolt support conditions: an experimental study. 2019 , 97, 913-933		5
199	Rockburst and microseismic characteristics around lithological interfaces under different excavation directions in deep tunnels. <i>Engineering Geology</i> , 2019 , 260, 105209	6	28
198	Analysis of fractures of a hard rock specimen via unloading of central hole with different sectional shapes. 2019 , 7, 2265-2286		50
197	Investigating the mechanical and acoustic emission characteristics of brittle failure around a circular opening under uniaxial loading. 2019 , 26, 1217-1230		16
196	Research on non-linear characteristics of rock energy evolution under uniaxial cyclic loading and unloading conditions. 2019 , 78, 1		10
195	Lattice modelling of gravity and stress-driven failures of rock tunnels. <i>Computers and Geotechnics</i> , 2019 , 116, 103183	4.4	3
194	Deformation and failure characteristics and fracture evolution of cryptocrystalline basalt. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019 , 11, 990-1003	5.3	16

193	Understanding continuum and discontinuum models of rock-support interaction for excavations undergoing stress-induced spalling. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019 , 123, 104089	6	7	
192	A Strain Based Method for Determining the Crack Closure and Initiation Stress in Compression Tests. 2019 , 23, 1819-1828		9	
191	Instability analysis of a deep tunnel under triaxial loads using a three-dimensional numerical method with strength reduction method. 2019 , 86, 51-62		9	
190	Effect of tunnel overburden stress on the rock brittle failure depth. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	5	
189	Modelling Micro-cracking Behaviour of Pre-cracked Granite Using Grain-Based Distinct Element Model. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 4669-4692	5.7	30	
188	A cohesion loss model for determining residual strength of intact rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019 , 119, 131-139	6	12	
187	Assessing fracturing mechanisms and evolution of excavation damaged zone of tunnels in interlocked rock masses at high stresses using a finite-discrete element approach. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019 , 11, 701-722	5.3	26	
186	The Improved Drilling Cutting Method and Its Engineering Applications. 2019 , 37, 3715-3726		6	
185	Investigation on shear behavior of soft interlayers by ring shear tests. <i>Engineering Geology</i> , 2019 , 254, 34-42	6	21	
184	Development of the coupled elastoplastic damage constitutional model of acidized shale gas formation based on experimental study. 2019 , 16, 332-344		2	
183	Characteristics of the microseismicity resulting from the construction of a deeply-buried shaft. 2019 , 85, 114-127		9	
182	Evolution Rules of Fractures for Mudstone under Compression Shear Load and the Fractal Characteristics of Broken Blocks. <i>Advances in Civil Engineering</i> , 2019 , 2019, 1-7	1.3	2	
181	Mobilized Mohr-Coulomb and Hoek-Brown Strength Parameters during Failure of Granite in Alxa Area in China for High-Level Radioactive Waste Disposal. 2019 , 12, 4237			
180	The Effect of Jointing in Massive Highly Interlocked Rockmasses Under High Stresses by Using a FDEM Approach. 2019 , 185-192			
179	Numerical analyses of pillar behavior with variation in yield criterion, dilatancy, rock heterogeneity and length to width ratio. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019 , 11, 46-60	5.3	4	
178	Performance of a coal pillar at deeper cover: Field and simulation studies. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019 , 113, 322-332	6	16	
177	Initial guidelines for the selection of input parameters for cohesion-weakening-friction-strengthening (CWFS) analysis of excavations in brittle rock. 2019 , 84, 18	39-200	13	
176	Assessment of strain bursting in deep tunnelling by using the finite-discrete element method. Journal of Rock Mechanics and Geotechnical Engineering, 2019, 11, 12-37	5.3	21	

175	Unloading-induced failure of brittle rock and implications for excavation-induced strain burst. 2019 , 84, 495-506		37
174	A direct reliability-based design method for tunnel support using the performance measure approach with line search. <i>Computers and Geotechnics</i> , 2019 , 107, 89-96	4.4	7
173	Numerical study of asymmetric vertical fluid intrusion in deep reservoirs: Effects of stress, temperature and salinity. 2019 , 750, 280-288		О
172	Geological and geomechanical heterogeneity in deep hydropower tunnels: A rock burst failure case study. 2019 , 84, 507-521		36
171	Mechanical Behavior of a Granite from Wuyi Mountain: Insights from Strain-Based Approaches. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 719-736	5.7	4
170	Experiment on Rockburst Process of Borehole and Its Acoustic Emission Characteristics. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 783-802	5.7	50
169	A discrete element exploration of V-shaped breakout failure mechanisms in underground opening. 2020 , 5, 281-291		1
168	Excavation unloading-induced fracturing of hard rock containing different shapes of central holes affected by unloading rates and in situ stresses. 2020 , 8, 4-27		7
167	Fault mechanics and earthquakes. 2020 , 11-80		5
166	HardeningBoftening Constitutive Model of Hard Brittle Rocks Considering Dilatant Effects and Safety Evaluation Index. 2020 , 33, 121-140		3
165	A cohesive grain based model to simulate shear behaviour of rock joints with asperity damage in polycrystalline rock. <i>Computers and Geotechnics</i> , 2020 , 117, 103254	4.4	19
164	Factors Controlling the Difference in Brazilian and Direct Tensile Strengths of the Lac du Bonnet Granite. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 1005-1019	5.7	11
163	Temporal-spatial evolution of acoustic emission during progressive fracture processes around tunnel triggered by blast-induced disturbances under uniaxial and biaxial compression. 2020 , 96, 10322	9	6
162	An analysis method for evaluating the safety of pressure water conveyance tunnel in argillaceous sandstone under water-weakening conditions. 2020 , 97, 103264		4
161	Comprehensive Evaluation of Strength Criteria for Granite, Marble, and Sandstone Based on Polyaxial Experimental Tests. 2020 , 20, 04019155		14
160	Brittle failure of rockslides linked to the rock bridge length effect. 2020 , 17, 793-803		6
159	Post-peak deformation and failure behaviour of Jinping marble under true triaxial stresses. <i>Engineering Geology</i> , 2020 , 265, 105444	6	14
158	Impact of water on peak and residual shear strength parameters and triaxial deformability of high-porosity building calcarenite stones: Interconnection with their physical and petrological characteristics. <i>Construction and Building Materials</i> , 2020 , 262, 120789	6.7	8

(2020-2020)

157	Sensitivity Analysis in the Estimation of Mechanical Parameters of Engineering Rock Mass Based on the Hoek B rown Criterion. 2020 , 2020, 1-18		О
156	The Research on Strain-Softening Characteristics and Local Fracture Law of Deep Granite Roadway. 2020 , 2020, 1-13		2
155	Tunnel failure in hard rock with multiple weak planes due to excavation unloading of in-situ stress. 2020 , 27, 2864-2882		14
154	Time-dependent crack development processes around underground excavations. 2020 , 103, 103518		10
153	Mesoscopic Damage and Fracturing of Heterogeneous Brittle Rocks Based on Three-dimensional Polycrystalline Discrete Element Method. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 5389-5409	5.7	21
152	Modelling micro-cracking behaviour of granite during direct tensile test using cohesive GBM approach. 2020 , 239, 107297		7
151	Analysis of the spalling process of rock mass around a deep underground ramp based on numerical modeling and in-situ observation. <i>Geomatics, Natural Hazards and Risk</i> , 2020 , 11, 1619-1637	3.6	3
150	A New Shear Strength Criterion for Rock Masses with Non-Persistent Discontinuities Considering the Nonlinear Progressive Failure Process. 2020 , 13,		1
149	Mechanical controls on structural styles in shortening environments: a discrete-element modelling approach. 2020 , 490, 33-55		4
148	Evolution of the mechanical and strength parameters of hard rocks in the true triaxial cyclic loading and unloading tests. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 131, 104349	6	23
147	A New Perspective on the Constant mi of the Hoek B rown Failure Criterion and a New Model for Determining the Residual Strength of Rock. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 3953-3967	5.7	33
146	Discussion and application of a risk assessment method for spalling damage in a deep hard-rock tunnel. <i>Computers and Geotechnics</i> , 2020 , 124, 103632	4.4	4
145	Numerical analyses of mesh size effects on core discing. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	2
144	Investigation of the Micromechanical Damage Process in a Granitic Rock Using an Inelastic Bonded Block Model (BBM). 2020 , 125, e2019JB018844		6
143	An improved strain-softening model for Beishan granite considering the degradation of elastic modulus. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	5
142	Calibration of parallel bond parameters in bonded particle models via physics-informed adaptive moment optimisation. 2020 , 366, 527-536		13
141	Modeling behaviors of a coal pillar rib using the progressive S-shaped yield criterion. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020 , 12, 484-492	5.3	11
140	A numerical investigation into floor buckling mechanisms in underground coal mine roadways. 2020 , 103, 103497		14

139	Finite Element Simulation of Multi-Scale Bedding Fractures in Tight Sandstone Oil Reservoir. 2020 , 13, 131		4
138	A constitutive model for rock materials subjected to triaxial cyclic compression. 2020 , 144, 103341		6
137	Impact of the intermediate stress component in a plastic potential function on rock mass stability around a sequentially excavated large underground cavity. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 127, 104223	6	2
136	Factor of safety of strain-softening slopes. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020 , 12, 473-483	5.3	14
135	Unraveling the Progressive Failure Behaviors and Mechanisms of the Slope with a Local Dynamic Method Based on the Double Strength Reduction. 2020 , 20, 04020069		4
134	Experimental and numerical investigations on crack development and mechanical behavior of marble under uniaxial cyclic loading compression. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 130, 104289	6	9
133	A data-driven fuzzy model for prediction of rockburst. 2021 , 15, 152-164		3
132	The damage-failure criteria for numerical stability analysis of underground excavations: A review. 2021 , 107, 103633		9
131	Experimental Study on Rock Strength and Deformation Characteristics Under Triaxial Cyclic Loading and Unloading Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 777-797	5.7	20
130	Numerical modeling of logged wellbore breakouts using cohesion-weakening frictional-strengthening models. 2021 , 198, 108206		
129	Integration of three-dimensional continuum model and two-dimensional bonded block model for studying the damage process in a granite pillar at the Creighton Mine, Sudbury, Canada. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021 , 13, 275-288	5.3	7
128	Slope Stability Analysis Considering Different Contributions of Shear Strength Parameters. 2021 , 21, 04020265		15
127	Stability Assessment of Cross-Tunnels in Jointed Rock Using Discrete Element Method. 2021 , 659-671		
126	Modelling three-dimensional stress-dependent failure of hard rocks. 2021 , 16, 1647-1677		6
125	Investigation of pillar damage mechanisms and rock-support interaction using Bonded Block Models. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 138, 104652	6	7
124	Evolution models of the strength parameters and shear dilation angle of rocks considering the plastic internal variable defined by a confining pressure function. <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 2925-2953	4	2
123	Stability analysis of slope in soil with strength mobilization. 638, 012086		
122	Determination and verification of the calculated model parameters of salt rocks taking into account softening and plastic flow. 247, 1-7		

121	Correlation study between fracability and brittleness of shale-gas reservoir. 2021, 7, 1		5
120	Micromechanical study on hard rock strainburst using the discrete element method. 2021 , 109, 103793		1
119	Brittle fracturing in low-porosity rock and implications to fault nucleation. <i>Engineering Geology</i> , 2021 , 285, 106025	6	3
118	The Strength of Massive to Moderately Jointed Rock and its Application to Cave Mining. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 3629-3661	5.7	3
117	Failure characteristics of brittle rock containing two rectangular holes under uniaxial compression and coupled static-dynamic loads. 1		9
116	Evolution of Strength Parameters for Sandstone Specimens during Triaxial Compression Tests. <i>Advances in Civil Engineering</i> , 2021 , 2021, 1-11	1.3	
115	Numerical Simulation on Energy Concentration and Release Process of Strain Rockburst. 2021 , 25, 3835	5-3842	1
114	Cracking mechanism and strength criteria evaluation of granite affected by intermediate principal stresses subjected to unloading stress state. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 143, 104783	6	18
113	Size Effect and Anisotropy in a Transversely Isotropic Rock Under Compressive Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 4639-4662	5.7	4
112	Rockburst response in hard rock owing to excavation unloading of twin tunnels at great depth. <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 7613	4	5
111	Predicting the excavation damaged zone within brittle surrounding rock masses of deep underground caverns using a comprehensive approach integrating in situ measurements and numerical analysis. 2021 , 13, 101273		1
110	Investigating asperity damage of natural rock joints in polycrystalline rocks under confining pressure using grain-based model. <i>Computers and Geotechnics</i> , 2021 , 135, 104144	4.4	5
109	An Extension Strain Type Mohrtoulomb Criterion. Rock Mechanics and Rock Engineering, 2021, 1	5.7	O
108	Back-Analysis Scheme of Shear Strength Parameters of Soil Slope Based on Strength Asynchronous Reduction Mode. 1		2
107	Exploring the Deformation Mechanics of Coal Ribs Using the Distinct Element Modeling Approach. <i>Rock Mechanics and Rock Engineering</i> , 1	5.7	1
106	Variation of Apparent Cohesion and Friction Angle Under Polyaxial Stress Conditions in Concrete. 2021 , 833, 012018		О
105	Effect of Damping Mode in Laboratory and Field-Scale Universal Distinct Element Code (UDEC) Models. <i>Rock Mechanics and Rock Engineering</i> , 1	5.7	1
104	Techniques for Progressive Failure Simulation of Hard Brittle Surrounding Rockmass: Taking the URL Test Tunnel as an Example. <i>Advances in Civil Engineering</i> , 2021 , 2021, 1-12	1.3	2

103	Strength and failure mechanism of highly interlocked jointed pillars: Insights from upscaled continuum grain-based models of a jointed rock mass analogue. <i>Computers and Geotechnics</i> , 2021 , 4.4 137, 104278	1
102	Failure in the Tension Zone around a Circular Tunnel Excavated in Saturated Porous Rock. 2021 , 11, 8384	O
101	Durability prediction of brittle rocks based on type-I crack extension theory. <i>Theoretical and Applied Fracture Mechanics</i> , 2021 , 115, 103044	O
100	An Insight into the Excavation-Induced Stress Paths on Mechanical Response of Weak Interlayer Zone in Underground Cavern Under High Geostress. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 133 💤 35	4 7
99	Comparison of Numerical and Physical Models for Understanding Shear Fracture Processes. 2006 , 1153-1174	1
98	Mechanical properties and energy evolution of jointed rock specimens containing an opening under uniaxial loading. 2021 , 28, 1875-1886	3
97	Influence of Shear Rate on the Shear Strength of Discontinuities with Different Joint Roughness Coefficients. 2020 , 43, 20180291	6
96	Fragmentation Evolution and Fractal Characteristics of Deep Rocks by Lab Compression-Shear Tests. <i>Journal of Testing and Evaluation</i> , 2018 , 46, 20160491	1
95	Numerical Simulation of Crack Propagation in Rock by Particle Flow Code. 2008 , 124, 611-618	1
94	Progressive Damage of a Canadian Granite in Laboratory Compression Tests and Underground Excavations. 2021 , 11, 10	2
93	Supporting Design Optimization of Tunnel Boring Machines-Excavated Coal Mine Roadways: A Case Study in Zhangji, China. 2020 , 8, 46	9
92	Forty-Year Review of the Hoek B rown Failure Criterion for Jointed Rock Masses. <i>Rock Mechanics</i> and Rock Engineering, 2022 , 55, 439	2
91	Application Case Studies. 2014 , 123-169	
90	Characterizing the influence of micro-heterogeneity on the strength and fracture of rock using an FDEMDFN approach. 2014 , 359-364	
89	Prediction of Brittle Failure within Mesozoic Granite of the Daejeon Region. <i>Journal of Engineering Geology</i> , 2015 , 25, 357-368	2
88	Numerical modeling of brittle failure of the overstressed rock mass around deep tunnel. <i>Journal of Korean Tunnelling and Underground Space Association</i> , 2016 , 18, 469-485	
87	Experimental Study on Properties of Steel-plastic Geogrids and their Application in Supporting Engineering. <i>Open Construction and Building Technology Journal</i> , 2016 , 10, 525-537	
86	Numerical Simulation on Acoustic Emission of Composite Stratum. 2018 , 91-98	

85	Microcrack Growth Behavior and CWFS Criterion Parameters Optimization of Granite with PFC. <i>Journal of Testing and Evaluation</i> , 2018 , 46, 20160450	1	2
84	Mechanism of rock burst based on energy dissipation theory and its applications in erosin zone. <i>Acta Geodynamica Et Geomaterialia</i> , 2019 , 119-130	1	1
83	Numerical analysis of hard rock tunnel excavated by double shield TBM based on CWFS model. Journal of Vibroengineering, 2019 , 21, 819-832	0.5	О
82	Evaluation of Brittle Failure Characteristics using the Finite Method and Discrete Element Method. Journal of the Korean Society of Mineral and Energy Resources Engineers, 2019 , 56, 582-595	0.2	
81	Investigating the Relationship between the Brittleness Index and Crack Initiation Stress for the Granite under Triaxial Compression. <i>Latin American Journal of Solids and Structures</i> , 2020 , 17,	1.4	
80	The Continuum Voronoi Block Model for simulation of fracture process in hard rocks. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> ,	4	1
79	A micromechanics-based variational phase-field model for fracture in geomaterials with brittle-tensile and compressive-ductile behavior. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 104684	5	3
78	Modeling the behavior of a coal pillar rib using Bonded Block Models with emphasis on ground-support interaction. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 148, 104965	6	Ο
77	A Dynamic Constitutive Model for Rock Materials Subjected to Medium- and Low-Strain-Rate Dynamic Cyclic Loading. <i>Journal of Engineering Mechanics - ASCE</i> , 2022 , 148,	2.4	1
76	Analysis of stress and failure in rock specimens with closed and open flaws on the surface. <i>Frontiers of Structural and Civil Engineering</i> , 2021 , 15, 1222	2.5	
75	An integrated UAV photogrammetry-discrete element investigation of jointed Triassic sandstone near Sydney, Australia. <i>Engineering Geology</i> , 2022 , 106517	6	1
74	Statistical Damage Constitutive Model of Gas-Bearing Coal with Consideration to Crack Deformation. <i>Journal of Energy Engineering - ASCE</i> , 2022 , 148,	1.7	O
73	On the mechanical anisotropy of argillaceous Cobourg limestone: fabric tensor approach. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022 , 150, 104953	6	О
7 ²	Effect of Temperature and Strain Rate on the Brittleness of China Sandstone. <i>Geofluids</i> , 2021 , 2021, 1-	-1 Q .5	
71	A systematic methodology to calibrate wellbore failure models, estimate the in-situ stress tensor and evaluate wellbore cross-sectional geometry. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022 , 149, 104935	6	О
70	Design and Prediction in Rock Engineering: The Importance of Mechanisms of Failure, with Focus on High Stress, Brittle Rock Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2022 , 55, 1517	5.7	
69	A New Method for Predicting Residual Strength of Rock in Water Diversion Tunnel Using Drilling Process Monitoring. <i>Shock and Vibration</i> , 2022 , 2022, 1-10	1.1	
68	Evolution of tensile and shear cracking in crystalline rocks under compression. <i>Theoretical and Applied Fracture Mechanics</i> , 2022 , 118, 103254	3.7	1

67	A geometrically and locally adaptive remeshing method for finite difference modeling of mining-induced surface subsidence. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022 , 14, 219-231	5.3	О
66	Excavation-induced deep hard rock fracturing: Methodology and applications. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022 , 14, 1-34	5.3	4
65	Implementation of an elastoplastic constitutive model to study the proppant embedment in coal under different pore fluid saturation conditions: A numerical and experimental study. <i>Fuel</i> , 2022 , 317, 123488	7.1	
64	Shear Failure in Geomaterials Using Rheological-Dynamical Analogy. SSRN Electronic Journal,	1	
63	Effects of external dynamic disturbances and structural plane on rock fracturing around deep underground cavern. <i>International Journal of Coal Science and Technology</i> , 2022 , 9, 1	4.5	1
62	An elasto-plastic and viscoplastic damage constitutive model for dilatancy and fracturing behavior of soft rock squeezing deformation. <i>Journal of Mountain Science</i> , 2022 , 19, 826-848	2.1	O
61	Numerical Modeling of an Umbrella-Shaped Bolt and Its Anchorage Characteristics in Rock Engineering. <i>Frontiers in Earth Science</i> , 2022 , 10,	3.5	
60	Study on Progressive Failure of Hard Rock Tunnel After Excavation Under High Stress. <i>Advances in Civil Engineering</i> , 2022 , 2022, 1-13	1.3	1
59	Challenges associated with numerical back analysis in rock mechanics. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022 ,	5.3	1
58	An asynchronous strength reduction method-based approach to slope stability analysis. <i>Arabian Journal of Geosciences</i> , 2022 , 15, 1	1.8	O
57	A cohesion-friction combined hardening plastic model of concrete with the nonorthogonal flow rule: Theory and numerical implementation. <i>Construction and Building Materials</i> , 2022 , 325, 126586	6.7	О
56	Fracture growth leading to mechanical spalling around deposition boreholes of an underground nuclear waste repository. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022 , 152, 1050.	38	1
55	Damage caused by mechanized tunnel boring in high-stress hard rock. <i>Transportation Geotechnics</i> , 2022 , 34, 100741	4	
54	Effect of load control mode on the post-peak behaviour of siltstone. <i>Arabian Journal of Geosciences</i> , 2022 , 15, 1	1.8	
53	Time-dependent borehole stability in hard-brittle shale. Petroleum Science, 2021,	4.4	1
52	Experimental mechanical strength and deformation characteristics of deep damaged f ractured rock. <i>Bulletin of Engineering Geology and the Environment</i> , 2022 , 81, 1	4	2
51	Study on mechanical properties and elasto-brittle-plastic constitutive model of hard brittle rock based on conventional triaxial test. <i>Arabian Journal of Geosciences</i> , 2022 , 15,	1.8	0
50	Nonlinear criterion for strength mobilization in brittle failure of rock and its extension to the tunnel scale. <i>International Journal of Mining Science and Technology</i> , 2022 ,	7.1	1

49	Experimental Investigation on the Influence of Depth on Rockburst Characteristics in Circular Tunnels. <i>Sensors</i> , 2022 , 22, 3679	3.8	1
48	A unified strain-hardening and strain-softening elastoplastic constitutive model for intact rocks. <i>Computers and Geotechnics</i> , 2022 , 148, 104772	4.4	1
47	Investigation of Overburden Movement and Ground Stress Behaviour in Multiseam Mining. <i>Lithosphere</i> , 2022 , 2022,	2.7	1
46	Effect of rock loading rate based on crack extension and propagation. Scientific Reports, 2022, 12,	4.9	O
45	Dynamic splitting tensile behavior of rockfloncrete bimaterial disc with multiple material types under different interface inclination angle. <i>Fatigue and Fracture of Engineering Materials and Structures</i> ,	3	О
44	A Novel Method for Conventional Logging Prediction of Brittleness Index: A Case of Tight Sandstone in Western Ordos Basin. <i>Frontiers in Energy Research</i> , 10,	3.8	
43	Numerical simulation method for the process of rockburst. <i>Engineering Geology</i> , 2022 , 306, 106760	6	O
42	Strength and Energy Evolution Law of Deep-Buried Granite Under Triaxial Conditions. <i>Frontiers in Environmental Science</i> , 10,	4.8	
41	Simulation of Brittle Failure Around Canadal Mine-By Experiment Tunnel Using 2D Continuum-Based Voronoi Tessellated Models. <i>Rock Mechanics and Rock Engineering</i> ,	5.7	О
40	Time-Dependent Model for Brittle Rocks Considering the Long-Term Strength Determined from Lab Data. <i>Mining</i> , 2022 , 2, 463-486		
39	Rock burst mechanism induced by stress anomaly in roof thickness variation zone: a case study. <i>Geomatics, Natural Hazards and Risk</i> , 2022 , 13, 1805-1830	3.6	1
38	Direct Shear Strength Characteristics in Unsaturated Compacted Soil Surface Coverage on Pb(II)-Polluted Tailings Reservoir under Low Normal Stress. <i>Sustainability</i> , 2022 , 14, 9035	3.6	
37	Effect of confining pressure on shear fracture behavior and surface morphology of granite by the short core in compression test. <i>Theoretical and Applied Fracture Mechanics</i> , 2022 , 103506	3.7	O
36	Experimental Study on the Failure Characteristics and Damage Evolution of Sandstones from Typical Buried Depths in High In Situ Stress Area. 2022 , 2022,		
35	Study on Mechanical Properties and Nonlinear Strength Model of Deep Water-Sensitive Rock in Xianglu Mountain Tunnel. 2022 , 2022, 1-23		
34	Energy Chaos Characteristic Evolution Analysis of Sandstones during Multilevel Unloading Subject to Different Confining Pressures. 2022 , 2022,		O
33	Thermo-hydro-mechanical behavior of a clayey rock: A constitutive approach and numerical validation. 2022 , 39, 102424		О
32	Experimental study on the relationship between local deformation and macro-crack evolution of granite under conventional triaxial compression. 1-18		O

31	Shear behavior of bio-cemented calcareous sand treated through bio-stimulation under the direct shear condition. 2022 , 81,	0
30	A Comparison Study of the Radial and Non-Radial Support Schemes in the Deep Coal Mine Roadways under TBM Excavation by the 3-D Equivalent Continuum Approach. 2022 , 12, 9442	О
29	Quantitative description of stress-dependent post-peak brittle characteristics and numerical implementation. 2022 , 81,	0
28	Assessing the Probability of Strainburst Potential Via an Integration of Monte Carlo Simulation and Machine Learning Algorithms.	o
27	Macro/mesofracture and instability behaviors of jointed rocks containing a cavity under uniaxial compression using AE and DIC techniques. 2022 , 122, 103620	1
26	Influence of Water on the Mechanical Properties and Failure Behaviors of Sandstone Under Triaxial Compression.	7
25	Effect of disturbance on the progressive failure process of Eastern Himalayan Gneiss. 2022, 106936	O
24	Dynamic mechanical behavior and cracking mechanism of cross-jointed granite containing a hole. 2023 , 22, 1572-1594	o
23	Mixed mode fracture parameters and fracture characteristics of diorite using cracked straight through Brazilian disc specimen. 2023 , 123, 103682	O
22	Numerical Simulation of Deformation and Failure Process of Tunnel Surrounding Rock Based on Different Constitutive Models. 2022 , 2381, 012048	O
21	Numerical simulation of influence of section geometry on surrounding rock stability of arch tunnel with straight wall. 2022 ,	0
20	A Study of Strength Parameter Evolution and a Statistical Damage Constitutive Model of Cemented Sand and Gravel. 2023 , 16, 542	1
19	Modelling of progressive failure mechanism of mine pillars. 2023 , 1124, 012099	0
18	A novel obtaining method and mesoscopic mechanism of pseudo-shear strength parameter evolution of sandstone. 2023 , 82,	0
17	Strain Evolution and Fatigue Damage Characteristics Analysis of Sandstones During Multi-Level Triaxial Cyclic Loading and Unloading Under Varying Stress Limits.	О
16	Investigation of Multiscale Failure Mechanism of Red Bed Soft Rock using Grain-Based Finite-Discrete Element Method Combined with X-Ray Micro-computerized Tomography.	O
15	Numerical simulation of failure properties of interbedded hydrate-bearing sediment and their implications on field exploitation. 2023 , 274, 114030	0
14	Quantifying coal rib stability and support requirements using bonded block modeling and reliability analysis based on the random set theory. 2023 , 163, 105332	o

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13	Time-dependent behaviors and volumetric recovery phenomenon of sandstone under triaxial loading and unloading. 2022 , 29, 4002-4020	О
12	Dynamic behaviors of rockslides subjected to brittle failure of locked segments. 2023 , 20, 532-541	O
11	Effect of principal stress direction interchange on the failure characteristics of hard rock. 2023, 164, 105365	О
10	Experimental study on the characteristics of rockburst occurring at the working face during tunnel excavation. 2023 , 164, 105347	O
9	A Strain Hardening and Softening Constitutive Model for Hard Brittle Rocks. 2023, 13, 2764	O
8	Coupling Deterioration Model of Mechanical Parameters for the Jinping Marble Under Progressive Damage Conditions.	O
7	A thermodynamic damage model for 3D stress-induced mechanical characteristics and brittleductile transition of rock. 2023 , 32, 623-648	O
6	Damage evaluation of concrete using iron ore tailings as aggregates under uniaxial cyclic compression. 2023 , 25,	O
5	Determining Method of Tensile Strength of Rock Based on Friction Characteristics in the Drilling Process.	O
4	The novel strength criterion and the associated constitutive model based on the finite deformation behavior for the rock under the disturbance stress paths. 2023 , 100456	O
3	Pseudo-discontinuum model to simulate hard-rock mine pillars. 2023 , 11, 81-95	O
2	Spalling failure of deep hard rock caverns. 2023 ,	O
1	Modeling of Independent Versus Dependent Tensile Erictional Strength Behavior of Jointed Rocks.	O