

The Brazilian Disc Test for Rock Mechanics Application

Rock Mechanics and Rock Engineering

46, 269-287

DOI: [10.1007/s00603-012-0257-7](https://doi.org/10.1007/s00603-012-0257-7)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Direct Tension Test for Rock Material Under Different Strain Rates at Quasi-Static Loads. Rock Mechanics and Rock Engineering, 2013, 46, 1247-1254.	2.6	42
2	Naturally Accepted Boundary Conditions for the Brazilian Disc Test and the Corresponding Stress Field. Rock Mechanics and Rock Engineering, 2013, 46, 959-980.	2.6	33
3	Effect of Alumina Addition on 45S5 Bioglass. Transactions of the Indian Ceramic Society, 2014, 73, 105-109.	0.4	5
4	The Cambrian Basal Sandstone Unit in central Alberta " an investigation of temperature distribution, petrography, and hydraulic and geomechanical properties of a deep saline aquifer. Canadian Journal of Earth Sciences, 2014, 51, 783-796.	0.6	21
5	Dependence of Static Fatigue Tests on Experimental Configuration for a Crystalline Rock. Advanced Materials Research, 0, 891-892, 863-871.	0.3	8
6	Location of the Crack Initiation Points in the Brazilian Disc Test. Geotechnical and Geological Engineering, 2014, 32, 1339-1345.	0.8	15
7	Quantification of strength anisotropy of metamorphic rocks of the Hamedan province, Iran, as determined from cylindrical punch, point load and Brazilian tests. Engineering Geology, 2014, 169, 80-90.	2.9	49
8	Rock fracture toughness study using cracked chevron notched Brazilian disc specimen under pure modes I and II loading " A statistical approach. Theoretical and Applied Fracture Mechanics, 2014, 69, 17-25.	2.1	136
9	Water Saturation Effects on the Brazilian Tensile Strength of Gypsum and Assessment of Cracking Processes Using High-Speed Video. Rock Mechanics and Rock Engineering, 2014, 47, 1103-1115.	2.6	78
10	Dynamic Brazilian Tests of Granite Under Coupled Static and Dynamic Loads. Rock Mechanics and Rock Engineering, 2014, 47, 495-505.	2.6	111
11	Dynamic Indirect Tensile Strength of Sandstone Under Different Loading Rates. Rock Mechanics and Rock Engineering, 2014, 47, 2271-2278.	2.6	90
12	A Review of the Tensile Strength of Rock: Concepts and Testing. Geotechnical and Geological Engineering, 2014, 32, 525-546.	0.8	321
13	Assessment of Brazilian tensile test by means of the truss-like Discrete Element Method (DEM) with imperfect mesh. Engineering Structures, 2014, 81, 10-21.	2.6	13
14	Fracturing and Failure Behavior of Carrara Marble in Quasistatic and Dynamic Brazilian Disc Tests. Rock Mechanics and Rock Engineering, 2014, 47, 1117-1133.	2.6	58
15	Mechanical and Elastic Properties of Transversely Isotropic Slate. Rock Mechanics and Rock Engineering, 2014, 47, 1763-1773.	2.6	128
16	Tensile strengths of flocculated compacted unsaturated soils. Geotechnique Letters, 2015, 5, 254-260.	0.6	14
17	Thermal stresses in borehole heat exchangers. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 1450-1470.	1.7	5
18	CURRENT COGNITION OF ROCK TENSILE STRENGTH TESTING BY BRAZILIAN TEST. Rudarsko Geolosko Naftni Zbornik, 2015, 30, 101-114.	0.2	18

#	ARTICLE	IF	CITATIONS
19	Testing of Ore Comminution Behavior in the Geometallurgical Context – A Review. Minerals (Basel), 2015, 5, 1-10.	0.8	24
20	Discrete element modeling of anisotropic rock under Brazilian test conditions. International Journal of Rock Mechanics and Minings Sciences, 2015, 78, 46-56.	2.6	76
21	Tensile behaviour of unsaturated compacted clay soils – A direct assessment method. Applied Clay Science, 2015, 112-113, 123-133.	2.6	40
22	Detection of crack onset in double cleavage drilled specimens of plaster under compression by digital image correlation – Theoretical predictions based on a coupled criterion. European Journal of Mechanics, A/Solids, 2015, 51, 172-182.	2.1	24
23	Rapid imbibition of water in fractures within unsaturated sedimentary rock. Advances in Water Resources, 2015, 77, 82-89.	1.7	59
24	True Triaxial Strength and Failure Modes of Cubic Rock Specimens with Unloading the Minor Principal Stress. Rock Mechanics and Rock Engineering, 2015, 48, 2185-2196.	2.6	128
25	Dynamic Brazilian Test of Rock Under Intermediate Strain Rate: Pendulum Hammer-Driven SHPB Test and Numerical Simulation. Rock Mechanics and Rock Engineering, 2015, 48, 1867-1881.	2.6	73
26	Numerical calibration of a yield limit function for rock materials by means of the Brazilian test and the uniaxial compression test. International Journal of Rock Mechanics and Minings Sciences, 2015, 74, 24-29.	2.6	7
27	Damage and Fracture Investigation of Three-Point Bending Notched Sandstone Beams by DIC and AE Techniques. Rock Mechanics and Rock Engineering, 2015, 48, 1297-1303.	2.6	64
28	A generalized strain energy density criterion for mixed mode fracture analysis in brittle and quasi-brittle materials. Theoretical and Applied Fracture Mechanics, 2015, 79, 70-76.	2.1	109
29	A unified failure criterion for unstabilized rammed earth materials upon varying relative humidity conditions. Construction and Building Materials, 2015, 95, 437-447.	3.2	60
30	Stress-deformed state of cylindrical specimens during indirect tensile strength testing. Journal of Rock Mechanics and Geotechnical Engineering, 2015, 7, 509-518.	3.7	28
31	Dynamic behavior of an ordinary chondrite: The effects of microstructure on strength, failure and fragmentation. Icarus, 2015, 260, 308-319.	1.1	24
32	Evaluation of strength anisotropy and failure modes of laminated sandstones. Arabian Journal of Geosciences, 2015, 8, 3089-3102.	0.6	60
33	An Experimental Investigation of the Brazilian Tensile Strength and Failure Patterns of Laminated Sandstones. Rock Mechanics and Rock Engineering, 2015, 48, 843-852.	2.6	64
34	Discrete element model for quasi-brittle rupture under tensile and compressive loading. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 2339-2352.	1.7	3
35	Statistical Analysis of Dynamic Splitting Tensile Strength of Concrete Using Different Types of Jaws. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	5
36	Effect of layer orientation on acoustic emission characteristics of anisotropic shale in Brazilian tests. Journal of Natural Gas Science and Engineering, 2016, 36, 1120-1129.	2.1	102

#	ARTICLE	IF	CITATIONS
37	A simple discrete-element-model of Brazilian test. <i>European Physical Journal B</i> , 2016, 89, 1.	0.6	4
38	Determination of fracture parameters in center cracked circular discs of concrete under diametral loading: A numerical analysis and experimental results. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 85, 355-366.	2.1	33
39	Reevaluation of the diametral compression test for tablets using the flattened disc geometry. <i>International Journal of Pharmaceutics</i> , 2016, 513, 669-677.	2.6	31
40	A Reconsideration of the Extension Strain Criterion for Fracture and Failure of Rock. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 4667-4679.	2.6	12
41	Static and dynamic tensile failure characteristics of rock based on splitting test of circular ring. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1912-1918.	1.7	37
42	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.	2.6	78
43	DEM investigation of the fracture mechanism of rock disc containing hole(s) and its influence on tensile strength. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 86, 197-216.	2.1	87
44	Determination of Dynamic Flexural Tensile Strength of Thermally Treated Laurentian Granite Using Semi-Circular Specimens. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3887-3898.	2.6	40
45	Characterization of rock cracking patterns in diametral compression tests by acoustic emission and petrographic analysis. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 83, 73-85.	2.6	80
46	Modified Formula for the Tensile Strength as Obtained by the Flattened Brazilian Disk Test. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 1579-1586.	2.6	35
47	Determination of the Geotechnical Characteristics of Hornfelsic Rocks with a Particular Emphasis on the Correlation Between Physical and Mechanical Properties. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 2595-2608.	2.6	50
48	Consolidation of titanium hydride powders during the production of titanium PM parts: The effect of die wall lubricants. <i>Materials and Design</i> , 2016, 90, 757-766.	3.3	17
49	Numerical modelling of the contact condition of a Brazilian disk test and its influence on the tensile strength of rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 93, 54-65.	2.6	44
50	High-Speed Photography and Digital Optical Measurement Techniques for Geomaterials: Fundamentals and Applications. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 1611-1659.	2.6	115
51	Fracture pressure prediction for layered formations with anisotropic rock strengths. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 38, 485-503.	2.1	49
52	Combination of Brazilian test and digital image correlation for mechanical characterization of refractory materials. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2285-2293.	2.8	41
53	Multiple contact compression tests on sand particles. <i>Soils and Foundations</i> , 2017, 57, 126-140.	1.3	61
54	The shape effect on the morphology of the fracture surface induced by the Brazilian test. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 93, 201-209.	2.6	10

#	ARTICLE	IF	CITATIONS
55	Nature's technical ceramic: the avian eggshell. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160804.	1.5	28
56	Application of carbonate precipitating bacteria for improving properties and repairing cracks of shotcrete. <i>Construction and Building Materials</i> , 2017, 148, 249-260.	3.2	105
57	Seismic and experimental insights into eruption precursors at Volc�n de Colima. <i>Geophysical Research Letters</i> , 2017, 44, 6092-6100.	1.5	23
58	Simultaneous Determination of Multiple Mechanical Parameters for a DNAN/HMX Melt�Cast Explosive by Brazilian Disc Test Combined with Digital Image Correlation Method. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 864-872.	1.0	8
59	Brazilian Test of Concrete Specimens Subjected to Different Loading Geometries: Review and New Insights. <i>International Journal of Concrete Structures and Materials</i> , 2017, 11, 343-363.	1.4	47
60	Analytical Solutions for Stress and Displacement Fields in Disks under Arbitrarily Distributed Loads. <i>International Journal of Computational Methods</i> , 2017, 14, 1750060.	0.8	0
61	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.	2.1	54
62	Splitting tensile behavior of autoclaved aerated concrete: Comparison of different specimens� results. <i>Construction and Building Materials</i> , 2017, 157, 1190-1198.	3.2	21
63	Strength anisotropy in building granites. <i>International Journal of Architectural Heritage</i> , 2017, , 1-13.	1.7	8
64	A relationship between tensile strength and loading stress governing the onset of mode I crack propagation obtained via numerical investigations using a bonded particle model. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017, 41, 1979-1991.	1.7	12
65	Effects of spatial heterogeneity and material anisotropy on the fracture pattern and macroscopic effective toughness of Mancos Shale in Brazilian tests. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6202-6230.	1.4	53
66	Cyclic flattened Brazilian disc tests for measuring the tensile fatigue properties of brittle rocks. <i>Review of Scientific Instruments</i> , 2017, 88, 083902.	0.6	19
67	Preliminary comparison of Fe/SiC sintered using microwave hybrid and conventional sintering. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
68	Quasi-static and dynamic experimental studies on the tensile strength and failure pattern of concrete and mortar discs. <i>Scientific Reports</i> , 2017, 7, 15305.	1.6	25
69	Size effects on brittle fracture of Brazilian disk samples containing a circular hole. <i>Engineering Fracture Mechanics</i> , 2017, 186, 496-503.	2.0	34
70	Experimental Study of Strain Rate Sensitivity to Fracture Toughness of Rock using Flattened Brazilian Disc. <i>Procedia Engineering</i> , 2017, 191, 256-262.	1.2	17
71	Experimental Investigation of Fracture Process Zone in Rocks Damaged Under Cyclic Loadings. <i>Experimental Mechanics</i> , 2017, 57, 97-113.	1.1	55
72	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.	1.7	29

#	ARTICLE	IF	CITATIONS
73	Dynamic Brazilian test of concrete using split Hopkinson pressure bar. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	1.3	91
74	Unconfined Expansion Test (UET) for measuring the tensile strength of organic soft rock. <i>Computers and Geotechnics</i> , 2017, 82, 54-66.	2.3	9
75	Brazilian Test for Tensile Failure of Anisotropic Shale under Different Strain Rates at Quasi-static Loading. <i>Energies</i> , 2017, 10, 1324.	1.6	16
76	Characterization of Beta-Tricalcium Phosphate (β -TCP) Produced at Different Process Conditions. <i>Journal of Bioengineering & Biomedical Science</i> , 2017, 07, .	0.2	9
77	Experimental and numerical investigations of mixed-mode ductile fracture in high-density polyethylene. <i>Archive of Applied Mechanics</i> , 2018, 88, 933-942.	1.2	8
78	Brazilian disk test and digital image correlation: a methodology for the mechanical characterization of brittle materials. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	1.3	17
79	Effects of the micro-structure and micro-parameters on the mechanical behaviour of transversely isotropic rock in Brazilian tests. <i>Acta Geotechnica</i> , 2018, 13, 887-910.	2.9	38
80	DEM analysis of failure mechanisms in the intact Brazilian test. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 102, 109-119.	2.6	58
81	Acceleration of a 2D/3D finite-discrete element code for geomechanical simulations using General Purpose GPU computing. <i>Computers and Geotechnics</i> , 2018, 100, 84-96.	2.3	95
82	Transient analysis of advancing contact angle measurements on polished rock surfaces. <i>Advances in Water Resources</i> , 2018, 119, 142-149.	1.7	11
83	Assessing the tensile strength of rocks and geological discontinuities via pull-off tests. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 105, 44-52.	2.6	19
84	A new thermo-mechanical coupled DEM model with non-spherical grains for thermally induced damage of rocks. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 116, 54-69.	2.3	36
85	Use of stochastic XFEM in the investigation of heterogeneity effects on the tensile strength of intermediate geotechnical materials. <i>Finite Elements in Analysis and Design</i> , 2018, 145, 1-9.	1.7	8
86	Experimental Study and Numerical Modeling of Fracture Propagation in Shale Rocks During Brazilian Disk Test. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 1755-1775.	2.6	68
87	Stochastic modelling of crack propagation in materials with random properties using isometric mapping for dimensionality reduction of nonlinear data sets. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 113, 656-680.	1.5	25
88	Influence of water and lubricant fluids on peak strength of Queenston shale from southern Ontario. <i>Canadian Geotechnical Journal</i> , 2018, 55, 455-476.	1.4	3
89	Fractal characteristics and acoustic emission of anisotropic shale in Brazilian tests. <i>Tunnelling and Underground Space Technology</i> , 2018, 71, 298-308.	3.0	88
90	Measurement of elastic properties in Brazilian disc test: solution derivation and numerical verification. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2018, 4, 63-77.	1.3	7

#	ARTICLE	IF	CITATIONS
91	Strength characterisation of soil-based construction materials. <i>Geotechnique</i> , 2018, 68, 400-409.	2.2	15
92	Numerical simulation of rock failure under static and dynamic loading by splitting test of circular ring. <i>Engineering Fracture Mechanics</i> , 2018, 188, 184-201.	2.0	40
93	Experimental and numerical investigation on the tensile fatigue properties of rocks using the cyclic flattened Brazilian disc method. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 105, 68-82.	1.9	59
94	The Effect of Lineation on Anisotropy in Dry and Saturated Himalayan Schistose Rock Under Brazilian Test Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 5-21.	2.6	20
95	Experimental Study on the Validity and Rationality of Four Brazilian Disc Tests. <i>Geotechnical and Geological Engineering</i> , 2018, 36, 63-76.	0.8	11
96	Estimating in situ rock mass strength and elastic modulus of granite from the Soultz-sous-Forets geothermal reservoir (France). <i>Geothermal Energy</i> , 2018, 6, .	0.9	35
97	Improving measurement accuracy of Brazilian tensile strength of rock by digital image correlation. <i>Review of Scientific Instruments</i> , 2018, 89, 115107.	0.6	9
98	Numerical Stress Analysis of the Biaxial Tension-Compression Wedge-Splitting Test in Vicinity of the Crack Tip. <i>Key Engineering Materials</i> , 0, 784, 85-90.	0.4	0
99	A Comparative Study on Fracture Characteristics of the Red Sandstone under Water and Nitrogen Gas Fracturing. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-15.	0.4	2
100	Numerical analysis of the flattened Brazilian test: Failure process, recommended geometric parameters and loading conditions. <i>Engineering Fracture Mechanics</i> , 2018, 204, 288-305.	2.0	27
101	Adhesively bonded disk under compressive diametrical load. <i>International Journal of Solids and Structures</i> , 2018, 152-153, 51-65.	1.3	0
102	A zero-thickness cohesive element-based numerical manifold method for rock mechanical behavior with micro-Voronoi grains. <i>Engineering Analysis With Boundary Elements</i> , 2018, 96, 94-108.	2.0	102
103	Micro-mechanics based numerical simulation of NaCl brine induced mechanical strength deterioration of sedimentary host-rock formations. <i>Engineering Geology</i> , 2018, 242, 55-69.	2.9	22
104	Dynamic tensile properties of sandstone subjected to wetting and drying cycles. <i>Construction and Building Materials</i> , 2018, 182, 215-232.	3.2	161
105	Quantitative visualisation of the continuous whole-field stress evolution in complex pore structures using photoelastic testing and 3D printing methods. <i>Optics Express</i> , 2018, 26, 6182.	1.7	22
106	Review of the Relationships between Crack Initiation Stress, Mode I Fracture Toughness and Tensile Strength of Geo-Materials. <i>International Journal of Geomechanics</i> , 2018, 18, 04018136.	1.3	28
107	Brazilian Tensile Strength of Anisotropic Rocks: Review and New Insights. <i>Energies</i> , 2018, 11, 304.	1.6	63
108	Comparison of Fracture Resistance of the Normal and High Strength Concrete Evaluated by Brazilian Disc Test. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	4

#	ARTICLE	IF	CITATIONS
109	The tensile strength of ice and dust aggregates and its dependence on particle properties. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1273-1277.	1.6	94
110	Microcrack Evolution and Associated Deformation and Strength Properties of Sandstone Samples Subjected to Various Strain Rates. Minerals (Basel, Switzerland), 2018, 8, 231.	0.8	10
111	Computational Verification of the Optimum Boundary Condition of the Brazilian Tensile Test. Rock Mechanics and Rock Engineering, 2018, 51, 3505-3519.	2.6	3
112	Experimental study of ultra-high temperature interlaminar tensile strengths of 3D-needled C/C composites using the V-shaped notched specimen compression method. Mechanics of Materials, 2018, 126, 26-35.	1.7	13
113	Numerical simulation of fluid flow and sensitivity analysis in rough-wall fractures. Journal of Petroleum Science and Engineering, 2018, 168, 546-561.	2.1	28
114	Fracture behavior of transversely isotropic rocks with discrete weak interfaces. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 2161-2176.	1.7	12
115	On the link between fracture toughness, tensile strength, and fracture process zone in anisotropic rocks. Engineering Fracture Mechanics, 2018, 201, 56-79.	2.0	111
116	The mixed-mode fracture resistance of C 50/60 and its suitability for use in precast elements as determined by the Brazilian disc test and three-point bending specimens. Theoretical and Applied Fracture Mechanics, 2018, 97, 108-119.	2.1	28
117	Numerical Analysis of the Failure Behavior of a C50/60 Brazilian Disc Test Specimen with a Central Notch. Key Engineering Materials, 0, 774, 570-575.	0.4	1
118	Closed-Form Solution for the Stresses in Brazilian Disc Tests Under Vertical Uniform Loads. Rock Mechanics and Rock Engineering, 2018, 51, 3489-3503.	2.6	6
119	2D simulation of breakage of angular particles using combined DEM and XFEM. Powder Technology, 2018, 336, 282-297.	2.1	32
120	Application of acoustic emission monitoring and signal analysis to the qualitative and quantitative characterization of the fracturing process in rocks. Engineering Fracture Mechanics, 2019, 210, 54-69.	2.0	105
121	Comparative Study on the Test Method for Tensile Elastic Modulus of Rock Materials. Advances in Civil Engineering, 2019, 2019, 1-18.	0.4	1
122	Experimental investigation of rock-solvent interaction on the properties of carbonate reservoir rock. Journal of Petroleum Science and Engineering, 2019, 181, 106246.	2.1	8
123	Numerical assessment of rupture mechanisms in Brazilian test of brittle materials. International Journal of Solids and Structures, 2019, 180-181, 1-12.	1.3	27
124	Incorporating the effects of elemental concentrations on rock tensile failure. International Journal of Rock Mechanics and Minings Sciences, 2019, 123, 104062.	2.6	4
125	Analysis of fractures of a hard rock specimen via unloading of central hole with different sectional shapes. Energy Science and Engineering, 2019, 7, 2265-2286.	1.9	58
126	Brittle–Ductile Deformation and Tensile Rupture of Dome Lava During Inflation at Santiaguito, Guatemala. Journal of Geophysical Research: Solid Earth, 2019, 124, 10107-10131.	1.4	24

#	ARTICLE	IF	CITATIONS
127	The Effect of Thermochemical Factors on Fracturing Pressure in Shale Rock Characterized by Tensile Strength Anisotropy. <i>Chemistry and Technology of Fuels and Oils</i> , 2019, 55, 339-352.	0.2	3
128	Fracture Resistance of Alkali Activated Concrete under the Mixed Mode I/II Load Conditions. <i>Procedia Structural Integrity</i> , 2019, 17, 610-617.	0.3	4
129	A new experimental method for tensile property study of quartz sandstone under confining pressure. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 123, 104091.	2.6	33
130	Numerical investigation of rock tensile strength determined by direct tension, Brazilian and three-point bending tests. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 115, 21-32.	2.6	54
131	Determination of Tensile Elastic Parameters from Brazilian Tensile Test: Theory and Experiments. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2551-2568.	2.6	7
132	A Fundamental Investigation of the Tensile Failure of Rock Using the Three-Dimensional Lattice Spring Model. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2319-2334.	2.6	11
133	Effect of setting time and artificial saliva on the strength evaluated by different methods of dental silver amalgam: A comparative study. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019, 50, 747-760.	0.5	1
134	Investigation of mechanical behaviour of a quasi-brittle material using Karagozian and Case concrete (KCC) model. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019, 11, 1119-1137.	3.7	19
135	SPONTANEOUS IMBIBITION OF A WETTING FLUID INTO A FRACTURE WITH OPPOSING FRACTAL SURFACES: THEORY AND EXPERIMENTAL VALIDATION. <i>Fractals</i> , 2019, 27, 1940001.	1.8	10
136	Development and Characterization of Glass-Ceramics from Combinations of Slag, Fly Ash, and Glass Cullet without Adding Nucleating Agents. <i>Materials</i> , 2019, 12, 2032.	1.3	29
137	Effect of Open-Fire-Induced Damage on Brazilian Tensile Strength and Microstructure of Granite. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 4189-4202.	2.6	22
138	Triaxial extension tests on sandstone using a simple auxiliary apparatus. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 120, 29-40.	2.6	30
139	Quantification of Hidden Whole-Field Stress Inside Porous Geomaterials Via Three-Dimensional Printing and Photoelastic Testing Methods. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5408-5426.	1.4	29
140	Tensile Strength of Porous Dust Aggregates. <i>Astrophysical Journal</i> , 2019, 874, 159.	1.6	29
141	Notch tip displacements of the concrete Brazilian disc test with central notch analysed by the concrete damaged plasticity model. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 102, 122-150.	2.1	10
142	Radial-Concentric Freeze Casting Inspired by Porcupine Fish Spines. <i>Ceramics</i> , 2019, 2, 161-179.	1.0	23
143	Stability analysis of a group of underground anhydrite caverns used for crude oil storage considering rock tensile properties. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 6249-6265.	1.6	12
144	Effect of disorder on the spatial structure of damage in slowly compressed porous rocks. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170393.	1.6	7

#	ARTICLE	IF	CITATIONS
145	Rock Fracture Sorptivity as Related to Aperture Width and Surface Roughness. <i>Vadose Zone Journal</i> , 2019, 18, 1-10.	1.3	7
146	A novel DEM approach for modeling brittle elastic media based on distinct lattice spring model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 350, 100-122.	3.4	28
147	A Theoretical Model for Predicting Uniaxial Stress-Strain Relations of Ductile Materials by Small Disk Experiments Based on Equivalent Energy Method. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 133-141.	0.7	2
148	On the tensile mechanical characteristics of fine-grained granite after heating/cooling treatments with different cooling rates. <i>Engineering Geology</i> , 2019, 253, 94-110.	2.9	156
149	Loading Rate Effect of Rock Material with the Direct Tensile and Three Brazilian Disc Tests. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-8.	0.4	16
150	Effects of supercritical CO ₂ adsorption on the mechanical characteristics and failure mechanisms of shale. <i>Energy</i> , 2019, 173, 870-882.	4.5	99
151	Evaluation of Slope Stability Considering the Preservation of the General Patrimonial Cemetery of Guayaquil, Ecuador. <i>Geosciences (Switzerland)</i> , 2019, 9, 103.	1.0	9
152	Determination of Direct Tensile Strength Values of Rock Materials by a New Test Method of Drilled Disc Tension. <i>Periodica Polytechnica: Civil Engineering</i> , 0, , .	0.6	1
153	A Comparison of the Fracture Behaviour of Various Concrete Grades under Mixed Mode I/II Loading. <i>Key Engineering Materials</i> , 2019, 827, 228-233.	0.4	0
154	Modeling discrete fractures in continuum analysis and insights for fracture propagation and mechanical behavior of fractured rock. <i>Results in Engineering</i> , 2019, 4, 100070.	2.2	19
155	Phase-field fracture simulations of the Brazilian splitting test. <i>International Journal of Fracture</i> , 2019, 220, 85-98.	1.1	23
156	A new hybrid framework for simulating hypervelocity asteroid impacts and gravitational reaccumulation. <i>Icarus</i> , 2019, 321, 1013-1025.	1.1	9
157	The effect of saturation conditions on fracture performance of different soundless cracking demolition agents (SCDAs) in geological reservoir rock formations. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 62, 157-170.	2.1	20
158	Mechanical behaviors of a sandstone and mudstone under loading and unloading conditions. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	16
159	The preparation and characterization of porous alumina ceramics using an eco-friendly pore-forming agent. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 820-831.	1.1	22
160	The effect of agglomerate integrity and blending formulation on the mechanical properties of whey protein concentrate powder tablets. <i>Journal of Food Engineering</i> , 2019, 247, 160-167.	2.7	6
161	Measurement of tensile strength of brittle rocks using a half ring shaped specimen. <i>Geosciences Journal</i> , 2019, 23, 649-660.	0.6	5
162	DEM analysis on the role of aggregates on concrete strength. <i>Computers and Geotechnics</i> , 2020, 119, 103290.	2.3	51

#	ARTICLE	IF	CITATIONS
163	Thickness effect on the mode III fracture resistance and fracture path of rock using ENDB specimens. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 277-291.	1.7	50
164	Testing Impact Load Cell Calculations of Material Fracture Toughness and Strength Using 3D-Printed Sandstone. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 1065-1096.	0.8	6
165	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.	2.6	34
166	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.	2.6	98
167	Computational analysis of tensile damage and failure of mineralized tissue assisted with experimental observations. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 289-298.	1.0	4
168	Simultaneous Initiation of Nitromethane in Two Holes by Pulsed Wire Discharge for Crack Control of a Concrete Block. <i>Journal of Dynamic Behavior of Materials</i> , 2020, 6, 53-63.	1.1	8
169	Investigation of optimum sample shape for the Luong core tension test. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 831-844.	1.6	0
170	Poroelectric solution to the Brazilian test. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 126, 104201.	2.6	3
171	Collisional disruption of highly porous targets in the strength regime: Effects of mixture. <i>Planetary and Space Science</i> , 2020, 182, 104819.	0.9	2
172	Dynamic tensile behavior of rocks under static pre-tension using the flattened Brazilian disc method. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 126, 104208.	2.6	41
173	Assessment of damage distribution in brittle materials by application of an improved algorithm for three-dimensional localization of acoustic emission sources with P-wave velocity calculation. <i>Construction and Building Materials</i> , 2020, 231, 117086.	3.2	13
174	Study of the failure properties and tensile strength of rock-mortar interface transition zone using bi-material Brazilian discs. <i>Construction and Building Materials</i> , 2020, 236, 117551.	3.2	40
175	A review on the experimental techniques and applications in the geomechanical evaluation of shale gas reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 74, 103090.	2.1	32
176	The Influence of Temperature and High-Speed Heating on Tensile Strength of Granite and the Application of Digital Image Correlation on Tensile Failure Processes. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 1935-1952.	2.6	33
177	Study on crack dynamic propagation behavior and fracture toughness in rock-mortar interface of concrete. <i>Engineering Fracture Mechanics</i> , 2020, 228, 106798.	2.0	36
178	Influence of the chevron notch type on the values of fracture energy evaluated on alkali-activated concrete. <i>Engineering Fracture Mechanics</i> , 2020, 236, 107209.	2.0	4
179	Modification of the Brazilian indirect tensile strength formula for better estimation of the tensile strength of rocks and rock-like geomaterials. <i>Journal of King Saud University, Engineering Sciences</i> , 2020, , .	1.2	2
180	3D discrete analysis of damage evolution of hard rock under tension. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	4

#	ARTICLE	IF	CITATIONS
181	Coupling model of disk splitting for expansive rock mass in deep storage considering water infiltration. <i>Energy Science and Engineering</i> , 2020, 8, 3200-3216.	1.9	2
182	Dynamic Tensile Test of Granite and Its Tensile Sensitivity. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-9.	0.4	2
183	Onset dynamics of air-water menisci on rock fracture surfaces. <i>Advances in Water Resources</i> , 2020, 146, 103754.	1.7	3
184	Compression-Induced Tensile Mechanical Behaviors of the Crystalline Rock under Dynamic Loads. <i>Materials</i> , 2020, 13, 5107.	1.3	1
185	Mechanical properties and failure behavior of rock with different flaw inclinations under coupled static and dynamic loads. <i>Journal of Central South University</i> , 2020, 27, 2945-2958.	1.2	46
186	Dynamic splitting tensile behaviours of distilled-water and river-water ice using a modified SHPB setup. <i>International Journal of Impact Engineering</i> , 2020, 145, 103686.	2.4	16
187	Evaluation on Rock Tensile Failure of the Brazilian Discs under Different Loading Configurations by Digital Image Correlation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5513.	1.3	20
188	Device for rock fracture toughness testing under hydrocarbon reservoir conditions. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 109, 102718.	2.1	5
189	Experimental Study of the Rock Mechanism under Coupled High Temperatures and Dynamic Loads. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-19.	0.4	4
190	Studying Strain Localization in Brittle Materials during the Brazilian Test. <i>Russian Physics Journal</i> , 2020, 63, 976-983.	0.2	3
191	An Integrated Geomechanical, Petrophysical, and Petrographical Study to Evaluate the Efficacy of a Plug Cleaning Technique for Ultra-Low Permeability Rocks. , 2020, , .		1
192	Forward prediction of early-time spontaneous imbibition of water in unsaturated rock fractures. <i>Vadose Zone Journal</i> , 2020, 19, e20056.	1.3	4
193	Sticky or not sticky? Measurements of the tensile strength of microgranular organic materials. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2517-2528.	1.6	20
194	Research on Design Parameters and Fatigue Life of Tunnel Bottom Structure of Single-Track Ballasted Heavy-Haul Railway Tunnel with 40-Ton Axle Load. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-9.	0.6	11
195	Brazilian disc test study on tensile strength-weakening effect of high pre-loaded red sandstone under dynamic disturbance. <i>Journal of Central South University</i> , 2020, 27, 2899-2913.	1.2	19
196	Calibration of rock Brazilian test using discrete element method in LS-DYNA. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 849, 012026.	0.3	0
197	Determination of Mohr-Coulomb Parameters for Modelling of Concrete. <i>Crystals</i> , 2020, 10, 808.	1.0	8
198	The tensile strength of compressed dust samples and the catastrophic disruption threshold of pre-planetary matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2418-2424.	1.6	7

#	ARTICLE	IF	CITATIONS
199	Foliation Effects on Mechanical and Failure Characteristics of Slate in 3D Space Under Brazilian Test Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 3919-3936.	2.6	21
200	A stable extended/generalized finite element method with Lagrange multipliers and explicit damage update for distributed cracking in cohesive materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 369, 113173.	3.4	5
201	Three-dimensional discrete element simulation of indirect tensile behaviour of a transversely isotropic rock. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1812-1832.	1.7	24
202	Strain Rate Effect on the Mechanical Properties and Fracture Surface Roughness of Sandstone Subjected to Dynamic Direct Tension. <i>IEEE Access</i> , 2020, 8, 107977-107992.	2.6	10
203	Grain-scale failure mechanism of porous sandstone: An experimental and numerical FDEM study of the Brazilian Tensile Strength test using CT-Scan microstructure. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 132, 104348.	2.6	41
204	Experimental verification of the boundary conditions in the success of the Brazilian test with loading arcs. An uncertainty approach using concrete disks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 132, 104380.	2.6	8
205	Experimental study of acoustic emission multi-parameter information characterizing rock crack development. <i>Engineering Fracture Mechanics</i> , 2020, 232, 107045.	2.0	71
206	In situ measurement of elastic and total strains during ambient and high temperature deformation of a polygranular graphite. <i>Carbon</i> , 2020, 163, 308-323.	5.4	15
207	Numerical investigation on the tensile fracturing behavior of rock-shotcrete interface based on discrete element method. <i>International Journal of Mining Science and Technology</i> , 2020, 30, 293-301.	4.6	31
208	Analyzing the Validity of Brazilian Testing Using Digital Image Correlation and Numerical Simulation Techniques. <i>Energies</i> , 2020, 13, 1441.	1.6	6
209	A Novel Analytical Solution for the Brazilian Test with Loading Arcs. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-19.	0.6	6
210	Calibration of parallel bond parameters in bonded particle models via physics-informed adaptive moment optimisation. <i>Powder Technology</i> , 2020, 366, 527-536.	2.1	37
211	Improved technique for toughness testing of shale rocks. <i>Engineering Fracture Mechanics</i> , 2020, 235, 107182.	2.0	3
212	Crack initiation and failure development in bimrocks using digital image correlation under dynamic load. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 109, 102688.	2.1	20
213	Determination and validation of Karagozian-Case Concrete constitutive model parameters for numerical modeling of dolomite rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 129, 104302.	2.6	23
214	Mechanical behavior of different sedimentary rocks in the Brazilian test. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 5415-5432.	1.6	23
215	Experimental and numerical investigations into the deformation and fracture behavior of intermetallics and base materials in as-cast Al-Cu compounds. <i>Materials Today Communications</i> , 2020, 25, 101278.	0.9	3
216	A new analytical approach for stiffness loss modelling of asphalt mixtures under cyclic indirect tensile loadings. <i>International Journal of Fatigue</i> , 2020, 135, 105535.	2.8	2

#	ARTICLE	IF	CITATIONS
217	Study on fracture mechanics of granite based on digital speckle correlation method. International Journal of Solids and Structures, 2020, 193-194, 192-199.	1.3	18
218	Size Effects in a Transversely Isotropic Rock Under Brazilian Tests: Laboratory Testing. Rock Mechanics and Rock Engineering, 2020, 53, 2623-2642.	2.6	59
219	Effect of the Contact Angle in the Failure Pattern in Slate Under Diametral Compression. Rock Mechanics and Rock Engineering, 2020, 53, 2123-2139.	2.6	3
220	Influence of Thermal and Mechanical Loading on Development of Microcracks in Granite. Rock Mechanics and Rock Engineering, 2020, 53, 2035-2051.	2.6	23
221	A Simple Time-Dependent Chart of Extension Fracture Initiation within Brittle Homogenous and Heterogeneous Rock Pillars in Hard Rock Mining. Geotechnical and Geological Engineering, 2020, 38, 2803-2833.	0.8	7
222	Deviation Effect of Coaxiality on the Rock Brazilian Split. Advances in Mathematical Physics, 2020, 2020, 1-8.	0.4	23
223	Modeling acoustic emission in the Brazilian test using moment tensor inversion. Computers and Geotechnics, 2020, 123, 103567.	2.3	22
224	Modelling of impact behaviour of European beech subjected to split Hopkinson pressure bar test. Composite Structures, 2020, 245, 112330.	3.1	9
225	Investigation on the Failure Characteristics and Fracture Classification of Shale Under Brazilian Test Conditions. Rock Mechanics and Rock Engineering, 2020, 53, 3325-3340.	2.6	103
226	Evolution on deformation behaviour of brazilian test under different contact area using particle image velocimetry and finite element modelling. Measurement: Journal of the International Measurement Confederation, 2020, 159, 107796.	2.5	4
227	Simulation of the thermal shock of brittle materials using the finite-discrete element method. Engineering Analysis With Boundary Elements, 2020, 115, 142-155.	2.0	34
228	Investigation of a new drilling design for loading core specimens with triple holes to determine direct tensile strength values of rock materials. Material Design and Processing Communications, 2021, 3, e154.	0.5	0
229	Direct Tensile Tests of Red Sandstone Under Different Loading Rates with the Self-developed Centering Device. Geotechnical and Geological Engineering, 2021, 39, 709-718.	0.8	8
230	Experimental Investigation of the Influence of Bedding Planes and Differential Stress on Microcrack Propagation in Shale Using X-Ray CT Scan. Geotechnical and Geological Engineering, 2021, 39, 213-236.	0.8	6
231	Damage Characteristics of Jalore Granitic Rocks After Thermal Cycling Effect for Nuclear Waste Repository. Rock Mechanics and Rock Engineering, 2021, 54, 235-254.	2.6	48
232	Dynamic Tensile Response of a Microwave Damaged Granitic Rock. Experimental Mechanics, 2021, 61, 461-468.	1.1	25
233	Fracture behaviour and seismic response of naturally fractured coal subjected to true triaxial stresses and hydraulic fracturing. Fuel, 2021, 288, 119618.	3.4	32
234	Identification of crack development in granite under triaxial compression based on the acoustic emission signal. International Journal of Distributed Sensor Networks, 2021, 17, 155014772098611.	1.3	18

#	ARTICLE	IF	CITATIONS
235	Improvement of DDA with a New Unified Tensile Fracture Model for Rock Fragmentation and its Application on Dynamic Seismic Landslides. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 1055-1075.	2.6	17
236	Investigation of fluorescent lamp glass waste as a fluxing agent in porcelain bodies. <i>Materials Today: Proceedings</i> , 2021, 42, 2381-2386.	0.9	0
237	Experimental Platform. <i>Terrestrial Environmental Sciences</i> , 2021, , 15-61.	0.5	1
238	A Study on the Influence of the Conglomerate Mesostructure on Fracture Failure Behavior Based on Discrete Element Method. <i>Geofluids</i> , 2021, 2021, 1-13.	0.3	1
239	Digital Image Correlation Measurement of the Deformation and Failure in PBX Brazilian Discs Reinforced with CFRP Patches. <i>Propellants, Explosives, Pyrotechnics</i> , 2021, 46, 548-554.	1.0	4
240	Failure mechanisms and bending strength of <i>Fuchsia magellanica</i> var. <i>gracilis</i> stems. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20201023.	1.5	2
241	An Experimental Investigation of the Influence of Loading Rate on Rock Tensile Strength and Split Fracture Surface Morphology. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 1969-1983.	2.6	30
242	Analysis and evaluation of mechanical descriptors from micro compression tests on spherical samples. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 1226-1237.	0.7	0
243	On the Topology Update of the Numerical Manifold Method for Multiple Crack Propagation. <i>International Journal of Computational Methods</i> , 0, , 2150030.	0.8	1
244	A novel test device for the direct measurement of tensile strength of rock using ring shape sample. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 139, 104649.	2.6	25
245	Elastic and fracture behavior of three-dimensional ply-to-ply angle interlock woven composites: Through-thickness, size effect, and multiaxial tests. <i>Composites Part C: Open Access</i> , 2021, 4, 100098.	1.5	5
246	Physical and mechanical rock properties of a heterogeneous volcano: the case of Mount Unzen, Japan. <i>Solid Earth</i> , 2021, 12, 633-664.	1.2	14
247	A study of crack initiation and source mechanism in the Brazilian test based on moment tensor. <i>Engineering Fracture Mechanics</i> , 2021, 246, 107622.	2.0	22
248	Numerical Simulation of the Effect of Loading Angle on Initial Cracks Position Point: Application to the Brazilian Test. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3573.	1.3	3
249	Evaluation of Bi-modular Behavior of Rocks Subjected to Uniaxial Compression and Brazilian Tensile Testing. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3961-3975.	2.6	16
250	Modelling Rock Fracture Induced By Hydraulic Pulses. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3977-3994.	2.6	25
251	Evaluation of Slope Stability in an Urban Area as a Basis for Territorial Planning: A Case Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5013.	1.3	10
252	Hybrid finite-discrete element modelling of rock fracture process in intact and notched Brazilian disc tests. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 5843-5876.	1.0	5

#	ARTICLE	IF	CITATIONS
253	Hydromechanical Investigations on the Self-propping Potential of Fractures in Tight Sandstones. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5407-5432.	2.6	15
254	Dynamic fracture analysis in Brazilian test: application to pharmaceutical tablets. <i>International Journal of Fracture</i> , 2021, 229, 113.	1.1	5
255	Estimating the direct tensile strength of rocks from indirect tests. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	11
256	Damage Evolution of Granodiorite after Heating and Cooling Treatments. <i>Minerals (Basel)</i> , Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 0,8	0,8	13
257	An Extension Strain Type Mohr-Coulomb Criterion. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 6207-6233.	2.6	3
258	FDEM Modelling of Rock Fracture Process during Three-Point Bending Test under Quasistatic and Dynamic Loading Conditions. <i>Shock and Vibration</i> , 2021, 2021, 1-21.	0.3	3
259	Experimental Investigation of the Dynamic Tensile Properties of Naturally Saturated Rocks Using the Coupled Static-Dynamic Flattened Brazilian Disc Method. <i>Energies</i> , 2021, 14, 4784.	1.6	14
260	PFC2D-based investigation on the mechanical behavior of anisotropic shale under Brazilian splitting containing two parallel cracks. <i>Frontiers of Earth Science</i> , 2021, 15, 803-816.	0.9	10
261	Probing the mineralized tissue-adhesive interface for tensile nature and bond strength. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 120, 104563.	1.5	7
262	Numerical and Experimental Assessment of the Sandstone Fracture Mechanism by Non-uniform Bonded Particle Modeling. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 6023-6037.	2.6	8
263	A 3D root system morphological and mechanical model based on L-Systems and its application to estimate the shear strength of root-soil composites. <i>Soil and Tillage Research</i> , 2021, 212, 105074.	2.6	37
264	DEM Analysis of Single-Particle Crushing Considering the Inhomogeneity of Material Properties. <i>Acta Mechanica Solida Sinica</i> , 2022, 35, 26-39.	1.0	3
265	A statistical DEM approach for modelling heterogeneous brittle materials. <i>Computational Particle Mechanics</i> , 2022, 9, 615-631.	1.5	6
266	The Effects of Rock Index Tests on Prediction of Tensile Strength of Granitic Samples: A Neuro-Fuzzy Intelligent System. <i>Sustainability</i> , 2021, 13, 10541.	1.6	25
267	Fracture behavior of Alumina-Tricalcium phosphate-Titania composites for bone tissue reconstruction. <i>Engineering Fracture Mechanics</i> , 2021, 255, 107959.	2.0	1
268	An improved continuum-based finite-discrete element method with intra-element fracturing algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 384, 113978.	3.4	11
269	Numerical simulation of direct shear test on granular materials composed of breakable angular particles: A DEM-XFEM approach. <i>Powder Technology</i> , 2021, 391, 450-466.	2.1	14
270	Fatigue characteristics of concrete subjected to indirect cyclic tensile loading: Insights from deformation behavior, acoustic emissions and ultrasonic wave propagation. <i>Construction and Building Materials</i> , 2021, 302, 124386.	3.2	19

#	ARTICLE	IF	CITATIONS
271	Discontinuous deformation analysis with distributed bond for the modelling of rock deformation and failure. <i>Computers and Geotechnics</i> , 2021, 139, 104413.	2.3	18
272	Capturing snapback in indirect tensile testing using AUSBIT - Adelaide University Snap-Back Indirect Tensile test. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 147, 104897.	2.6	5
273	On the fracture mechanism of rock-like materials with interbedded hard-soft layers under Brazilian tests. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 116, 103102.	2.1	18
274	Combined finite-discrete element method for modeling the interaction between single PDC cutter and brittle rock. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109133.	2.1	4
275	Analysis of a model of field crack mechanics for brittle materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 386, 114061.	3.4	5
276	Tensile behaviour of soda-lime-silica glass and the significance of load duration – A literature review. <i>Journal of Building Engineering</i> , 2021, 44, 102966.	1.6	16
277	Crack equations: sidestepping complex stress analysis. , 2021, , 165-189.		0
278	A Plane Stress Failure Criterion for Inorganically-Bound Core Materials. <i>Materials</i> , 2021, 14, 247.	1.3	9
279	Tensile strength of unsaturated coarse and fine-grained soils. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 2727-2750.	1.6	7
280	Evaluation of quenched ductile iron mechanical behavior under compressive loads. <i>Material Design and Processing Communications</i> , 2021, 3, e217.	0.5	0
281	Effect of stress pulse shape on the dynamic fracture of soda-lime glass. <i>EPJ Web of Conferences</i> , 2021, 250, 06001.	0.1	0
282	Study of the Water Effects on the Tensile Strength and Cracking Processes of Molded Gypsum. , 2015, , 1263-1267.		1
283	Effect of addition of B2O3 to the sol-gel synthesized 45S5 bioglass. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 1309-1322.	1.1	7
284	Tensile strength of dust-ice mixtures and their relevance as cometary analog material. <i>Astronomy and Astrophysics</i> , 2020, 642, A218.	2.1	13
285	Development of a New Push–Pull Direct Tensile Strength Testing Apparatus (PPTA). <i>Geotechnical Testing Journal</i> , 2014, 37, 20130040.	0.5	15
286	Determination of Geotechnical Properties of Anisotropic Rocks Using Some Index Tests. <i>Geotechnical Testing Journal</i> , 2014, 37, 20130078.	0.5	15
287	Measurement of the Tensile Strength of Organic Soft Rock. <i>Geotechnical Testing Journal</i> , 2014, 37, 20140028.	0.5	17
288	Direct Tensile Test on Brittle Rocks with the Newly Developed Centering Apparatus. <i>Geotechnical Testing Journal</i> , 2018, 41, 20160301.	0.5	14

#	ARTICLE	IF	CITATIONS
289	Determining the Geotechnical Characteristics of Some Sedimentary Rocks from Iran with an Emphasis on the Correlations between Physical, Index, and Mechanical Properties. <i>Geotechnical Testing Journal</i> , 2018, 41, 20170058.	0.5	18
290	Utilization of the Brazilian test for estimating the uniaxial compressive strength and shear strength parameters. <i>Journal of the South African Institute of Mining and Metallurgy</i> , 2015, 115, 185-192.	0.5	38
291	Ä°MENTO ESASLI MALZEMELERÄ°N Ä°EKME DAYANIMLARINI BULABÄ°LMEK Ä°Ä°Ä°N YENÄ° BÄ°R YÄ°NTEM Ä°NERÄ°SÄ°: Ä°Ä°GEN PLAKA YÄ°NTEMÄ°. <i>Journal of the Faculty of Engineering and Architecture of Gazi University</i> , 2015, 30, .	0.5	2
292	WATER SATURATION INDUCED CHANGES IN THE INDIRECT (BRAZILIAN) TENSILE STRENGTH AND THE FAILURE MODE OF SOME IGNEOUS ROCK MATERIALS. <i>GeoScience Engineering</i> , 2020, 66, 60-68.	0.1	3
293	Energy Absorption of Pultruded Glass-Graphite/Epoxy Hybrid Composites under High Strain-Rate Induced Transverse Tension. <i>Open Journal of Composite Materials</i> , 2018, 08, 43-53.	0.4	1
294	Cleavage Dependent Indirect Tensile Strength of Pocheon Granite Based on Experiments and DEM Simulation. <i>Tunnel and Underground Space</i> , 2016, 26, 316-326.	0.1	6
295	Experimental Study of Rock Subjected to Triaxial Extension. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 1069-1077.	2.6	13
296	New criterion for the spalling failure of deep rock engineering based on energy release. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 148, 104943.	2.6	42
298	ENHANCING TENSILE STRENGTH IN CLAYS USING POLYPROPYLENE FIBERS. <i>International Journal of GEOMATE</i> , 2017, , .	0.1	0
299	Tensile Strength of Barrier Material. , 0, , .		2
300	BRAZILIAN SPLITTING TEST ä€“ EXPERIMENTAL AND NUMERICAL ANALYSIS. , 0, , .		1
301	Detection of Core Fracture in Inorganically Bound Cast-in Sand Cores by Acoustic Microphony. , 2019, , 34-43.		1
302	Hybrid finite-discrete element modelling of rock fracture during conventional compressive and tensile strength tests under quasi-static and dynamic loading conditions. <i>Latin American Journal of Solids and Structures</i> , 2020, 17, .	0.6	1
303	Brazilian Tensile Strength Test Conducted on Ductile Unsaturated Soil Samples. <i>Geotechnical Testing Journal</i> , 2021, 44, 799-810.	0.5	1
304	Experimental and Numerical Studies on Small-Scale Direct Tension Test for Rock. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 669-690.	2.6	7
305	Fatigue and micro-seismic behaviors of concrete disks exposed to cyclic Brazilian testing: A numerical investigation based on a 3D particle-based model. <i>International Journal of Fatigue</i> , 2022, 155, 106629.	2.8	16
306	Numerical investigation of inhomogeneous stress state and fracture of ceramic materials under Brazilian test. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
307	Coupled static and dynamic tensile property of granite. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 570, 042028.	0.2	0

#	ARTICLE	IF	CITATIONS
308	Interpretation of Mini-Frac and Flowback Pressure Response: Application to Unconventional Reservoirs in the UAE. , 2020, , .		0
310	The Influence of Loading Rate on Direct and Indirect Tensile Strengths: Laboratory and Numerical Methods. Shock and Vibration, 2021, 2021, 1-17.	0.3	0
311	Experimental Investigation of Progressive Failure Processes Using 3D Acoustic Emission Tomography. Frontiers in Earth Science, 2021, 9, .	0.8	1
312	Effect of Heterogeneity in Micro-Structure and Micro-Strength on the Discrepancies Between Direct and Indirect Tensile Tests on Brittle Rock. Rock Mechanics and Rock Engineering, 2022, 55, 981-1000.	2.6	11
313	Experimental Study on the Temporal and Morphological Characteristics of Dynamic Tensile Fractures in Igneous Rocks. Applied Sciences (Switzerland), 2021, 11, 11230.	1.3	11
314	Investigation on fracture mechanism of layered slate: experiment and beam-particle method. Environmental Earth Sciences, 2021, 80, 1.	1.3	7
315	Hybrid Finite-Discrete Element Modelling of Various Rock Fracture Modes during Three Conventional Bending Tests. Sustainability, 2022, 14, 592.	1.6	5
316	Modeling soil aggregate fracture using the discrete element method. Soil and Tillage Research, 2022, 218, 105295.	2.6	4
317	Analytical Solutions of Stress Intensity Factors for a Centrally Cracked Brazilian Disc Considering Tangential Friction Effects. Rock Mechanics and Rock Engineering, 2022, 55, 2459-2470.	2.6	4
318	Microstructure and mechanical properties of cold sintered porous alumina ceramics. Ceramics International, 2022, 48, 13531-13540.	2.3	14
319	The role of water content in rate dependence of tensile strength of a fine-grained sandstone. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	1.9	20
320	Dynamic Compression Characteristics and Failure Mechanism of Water-Saturated Granite. Water (Switzerland), 2022, 14, 216.	1.2	2
321	Research on the characteristics of crack propagation at high temperatures based on digital image correlation technology. Engineering Fracture Mechanics, 2022, 263, 108295.	2.0	4
322	Influence of ecological Juniperus Drupacea cone powder on mechanical and physical properties of fiber-reinforced composite friction materials. European Mechanical Science, 2022, 6, 47-57.	0.4	0
323	Tensile behaviors of frozen subgrade soil. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	1.6	6
324	Laser Vibration Characteristics of Marble Specimens and Failure Criterion. Applied Sciences (Switzerland), 2022, 12, 2223.	1.3	2
325	Effect of confining pressure on deformation and strength of granite in confined direct tension tests. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	1.6	3
326	Compressive strength of heterogeneous masonry walls containing blends of brick types. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	1.3	1

#	ARTICLE	IF	CITATIONS
327	Acoustic Emission Analysis of Fracture and Size Effect in Cementitious Mortars. Applied Sciences (Switzerland), 2022, 12, 3489.	1.3	6
328	Horizontal Compression Test: A Proposed Method for Indirect Determination of Tensile Strength of Stiff Soils and Soft Rocks. Frontiers in Earth Science, 2022, 10, .	0.8	4
329	Experimental Study on Direct Tensile Properties of Cemented Paste Backfill. Frontiers in Materials, 2022, 9, .	1.2	7
330	Electron scanning characteristics of rock materials under different loading methods: a review. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.	1.3	12
331	Carbonate Rock Chemical Consolidation Methods: Advancement and Applications. Energy & Fuels, 2022, 36, 4186-4197.	2.5	11
332	A new methodology inspired from the Theory of Critical Distances for determination of inherent tensile strength and fracture toughness of rock materials. International Journal of Rock Mechanics and Minings Sciences, 2022, 152, 105073.	2.6	11
333	Comparison of Test Methods for Determining the Tensile Strength of Soil and Weak Rocks. Frontiers in Earth Science, 2022, 10, .	0.8	3
334	Discrete element modeling of rock-concrete bi-material discs under dynamic tensile loading. Construction and Building Materials, 2022, 327, 126962.	3.2	12
335	Experimental investigations of static mechanical properties and failure characteristics of damaged diorite after dynamic triaxial compression. International Journal of Rock Mechanics and Minings Sciences, 2022, 153, 105106.	2.6	20
336	A combined numerical-experimental approach to analyzing fracture initiation and development in brittle rocks. Computers and Geotechnics, 2022, 145, 104663.	2.3	2
337	Dynamic brittle fracture in sharp V-notched rock specimens using digital image correlation method. Theoretical and Applied Fracture Mechanics, 2022, 119, 103323.	2.1	15
338	Brazilian Tensile Strength Testing. Journal of Mining Science, 2021, 57, 922-932.	0.1	2
339	Analytical and Modelling Study on the Spatial Stress Distribution and Failure Process of Disc Specimen in the Brazilian Splitting Test. Geofluids, 2021, 2021, 1-10.	0.3	0
340	Experimental investigation on the effect of open fire on the tensile properties and damage evolution behavior of granite. International Journal of Damage Mechanics, 2022, 31, 1139-1164.	2.4	21
341	Tensile Strength of Class F Fly Ash and Fly Ash with Bentonite Addition as a Material for Earth Structures. Materials, 2022, 15, 2887.	1.3	3
342	Quantification of Plasticity and Damage in Berea Sandstone through Monotonic and Cyclic Triaxial Loading under High-Confinement Pressures. Journal of Materials in Civil Engineering, 2022, 34, .	1.3	4
343	Platen parallelism significance and control in single fiber transverse compression tests. Composites Part A: Applied Science and Manufacturing, 2022, , 106990.	3.8	1
344	Testing the Strengths of Sandstone Aggregates Stabilized with Cement and Styrene-Butadiene Latex Copolymer for Road Subbase Applications. Journal of Materials in Civil Engineering, 2022, 34, .	1.3	5

#	ARTICLE	IF	CITATIONS
345	Experimental study on the dynamic behavior of sandstone with coplanar elliptical flaws from macro, meso, and micro viewpoints. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 120, 103400.	2.1	23
346	Experiments on an ice ball impacting onto a rigid target. <i>International Journal of Impact Engineering</i> , 2022, 167, 104281.	2.4	15
347	Analysis of stresses at the center of transversely isotropic Brazilian disk. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2023, 15, 618-629.	3.7	0
348	Dynamic splitting tensile behavior of rock-concrete bimaterial disc with multiple material types under different interface inclination angle. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 2313-2328.	1.7	6
349	Multiscale assessment of masonry materials from the roman imperial baths at Sagalassos. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 198, 111368.	2.5	1
350	Mesoscale Study on Splitting Tensile Damage Characteristics of Concrete Based on X-ray Computed Tomography and Digital Image Correlation Technology. <i>Materials</i> , 2022, 15, 4416.	1.3	4
351	Mechanical properties and fracture evolution process of Beishan granite under tensile state. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, .	1.6	3
352	Tensile Properties and Tensile Failure Criteria of Layered Rocks. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6063.	1.3	4
353	Progressive Transition from Extension Fracture to Shear Fracture of Altered Granite During Uniaxial Tensile Tests. <i>Rock Mechanics and Rock Engineering</i> , 0, , .	2.6	6
354	Transverse Cracking of Rock with a Dissimilar Inclusion Under Tension: Effect of Loading Rate and Inclusion Diameter. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 5513-5534.	2.6	5
355	Dynamic Tensile Behavior of a Brittle Glass: The Effects of Loading Rate, Specimen Size and Stress Waves. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
356	Effect of Clay Minerals on Tensile Failure Characteristics of Shale. <i>ACS Omega</i> , 2022, 7, 24219-24230.	1.6	1
357	Experimental investigation on microstructure characteristics and deformation failure behaviors of sandstone after high temperature under Brazilian splitting. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, .	1.3	4
358	Using petrographically observable microstructure to predict hydromechanical changes in a complex siliciclastic storage site during CO ₂ injection. <i>International Journal of Greenhouse Gas Control</i> , 2022, 119, 103724.	2.3	4
359	Corn Starch-Based Sandstone Sustainable Materials: Sand Type and Water Content Effect on Their Structure and Mechanical Properties. <i>Sustainability</i> , 2022, 14, 8901.	1.6	2
360	Fracturing and AE characteristics of matrix-inclusion rock types under dynamic Brazilian testing. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 157, 105164.	2.6	7
361	A new method to replicate high-porosity weak rocks subjected to cyclic freezing-thawing: Sand 3D printing and digital image correlation explorations. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 157, 105174.	2.6	9
362	Failure Transition and Validity of Brazilian Disc Test under Different Loading Configurations: A Numerical Study. <i>Mathematics</i> , 2022, 10, 2681.	1.1	7

#	ARTICLE	IF	CITATIONS
363	Investigation of the Dynamic Pure-Mode-II Fracture Initiation and Propagation of Rock during Four-Point Bending Test Using Hybrid Finite-Discrete Element Method. Sustainability, 2022, 14, 10200.	1.6	1
364	A versatile microtomography system to study <i>in situ</i> the failure and fragmentation in geomaterials. Review of Scientific Instruments, 2022, 93, 083704.	0.6	3
365	An experimental investigation on fatigue characteristics of granite under repeated dynamic tensions. International Journal of Rock Mechanics and Minings Sciences, 2022, 158, 105185.	2.6	10
366	Discrete element study on the mechanical behavior of flawed rocks under dynamic compression. Theoretical and Applied Fracture Mechanics, 2022, 121, 103516.	2.1	8
367	Calculation of stresses on 3D scaffolds fabricated using extrusion-based bioprinting using a semi-analytical approach. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 135, 105471.	1.5	0
368	Experimental and numerical investigation of strain inhomogeneity in zirconia during a Brazilian test. International Journal of Solids and Structures, 2022, 256, 111978.	1.3	0
369	Calculation of Stresses on 3D Scaffolds Fabricated Using Extrusion-Based 3D Bioprinting Using a Semi-Analytical Approach. SSRN Electronic Journal, 0, , .	0.4	0
370	Tensile Mechanical Properties and Ae Characteristics of Shale in Triaxial Brazilian Splitting Tests. SSRN Electronic Journal, 0, , .	0.4	0
371	A New Perspective Based on Overcoming Sample Heterogeneity for the Estimation of Thermal Damage Inflicted on Volcanic Rocks Using Non-destructive Tests. Rock Mechanics and Rock Engineering, 2023, 56, 35-56.	2.6	2
372	Modelling of dynamic tensile failure of inclusion-bearing rocks. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, .	1.3	2
373	A modified phase-field model for predicting mixed-mode fracture in rock-like materials. Journal of Micromechanics and Molecular Physics, 2022, 07, 213-224.	0.7	0
374	Quantification of thermal damage and dynamic tensile behaviors of hard rock under microwave irradiation: an experimental investigation. Bulletin of Engineering Geology and the Environment, 2022, 81, .	1.6	4
375	Griffith-based analysis of crack initiation location in a Brazilian test. International Journal of Rock Mechanics and Minings Sciences, 2022, 159, 105227.	2.6	8
376	Tensile mechanical properties and AE characteristics of shale in triaxial Brazilian splitting tests. Journal of Petroleum Science and Engineering, 2022, 219, 111080.	2.1	5
377	Tensile Properties of Cement Stabilised Clay and Their Contribution to Seawall Design. Proceedings of the Institution of Civil Engineers: Ground Improvement, 0, , 1-39.	0.7	0
378	Effect of size on biaxial flexural strength for cement-based materials by using a triangular plate method. Frontiers of Structural and Civil Engineering, 0, , .	1.2	0
379	Energy Dissipation of Rock with Different Parallel Flaw Inclinations under Dynamic and Static Combined Loading. Mathematics, 2022, 10, 4082.	1.1	4
380	Pillar safety in shallow salt caverns by using numerical simulations. Journal of Energy Storage, 2022, 55, 105881.	3.9	2

#	ARTICLE	IF	CITATIONS
381	Analysis of forceâ€“deformation and forceâ€“time profiles of 3D-printed specimens of single and binary mineral composition tested with Short Impact Load Cell. <i>Minerals Engineering</i> , 2022, 189, 107887.	1.8	0
382	Evaluating a new method for direct testing of rock tensile strength. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 160, 105258.	2.6	4
383	Disk-shaped compact tension test for fracture analysis on pharmaceutical tablets. <i>Powder Technology</i> , 2023, 413, 118016.	2.1	5
384	Application of the Deformation Fracture Criterion to Cracking of Disc Specimens with a Central Narrow Slot. <i>Acta Mechanica Et Automatica</i> , 2022, 16, 393-398.	0.3	0
385	Observation of fracture process zone and produced fracture surface roughness in granite under Brazilian splitting tests. <i>Theoretical and Applied Fracture Mechanics</i> , 2023, 125, 103680.	2.1	8
386	Investigation of compressive and tensile behaviors for porous sandstone by a microstructure-based constitutive model. <i>Acta Geotechnica</i> , 2023, 18, 2309-2319.	2.9	1
387	Finding the right place in Mohr circle space: Geologic evidence and implications for applying a non-linear failure criterion to fractured rock. <i>Journal of Structural Geology</i> , 2023, 166, 104773.	1.0	0
388	Assessing water-induced changes in tensile behaviour of porous limestones by means of uniaxial direct pull test and indirect methods. <i>Engineering Geology</i> , 2023, 313, 106962.	2.9	13
389	Dynamic tensile behavior of soda-lime silicate glass: the effects of loading rate, specimen size and stress waves. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2023, 39, .	1.5	2
390	Correction of dynamic Brazilian disc tensile strength of rocks under preloading conditions considering the overload phenomenon and invoking the Griffith criterion. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2023, 15, 1986-1996.	3.7	4
391	Dynamic Compressive and Tensile Characterisation of Igneous Rocks Using Split-Hopkinson Pressure Bar and Digital Image Correlation. <i>Materials</i> , 2022, 15, 8264.	1.3	3
392	Fracture Process and Failure Mode of Brazilian Discs with Cracks of Different Angles: A Numerical Study. <i>Mathematics</i> , 2022, 10, 4808.	1.1	0
393	Size effects on the tensile strength and fracture toughness of granitic rock in different tests. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2023, 15, 2179-2192.	3.7	8
394	Effects of High Temperature Treatments on Strength and Failure Behavior of Sandstone under Dynamic Impact Loads. <i>Sustainability</i> , 2023, 15, 794.	1.6	1
395	Mechanical behavior and microscopic mechanism of fiber reinforced coarse aggregate cemented backfill. <i>Construction and Building Materials</i> , 2023, 366, 130093.	3.2	15
396	Strain-rate-dependent tensile response of an alumina ceramic: Experiments and modeling. <i>International Journal of Impact Engineering</i> , 2023, 173, 104487.	2.4	3
397	Study of fired clay bricks with coconut shell waste as a renewable pore-forming agent: Technological, mechanical, and thermal properties. <i>Journal of Building Engineering</i> , 2023, 68, 106107.	1.6	5
398	Numerical simulation on fracture and acoustic emission behavior of sandstone with partial filling flaw in semi-circular three-point bending tests. <i>Theoretical and Applied Fracture Mechanics</i> , 2023, 125, 103841.	2.1	4

#	ARTICLE	IF	CITATIONS
399	3-D coupled peridynamics and discrete element method for fracture and post-fracture behavior of soil-like materials. <i>Computers and Geotechnics</i> , 2023, 158, 105372.	2.3	1
401	Chemical treatment for sand production control: A review of materials, methods, and field operations. <i>Petroleum Science</i> , 2023, 20, 1640-1658.	2.4	2
402	Strength and failure characteristics of marble spheres subjected to paired point loads. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2023, 15, 2280-2290.	3.7	0
403	Acoustic Emission Characteristics and Damage Evolution of Sandstone with Different Pores under External Load. <i>Advances in Civil Engineering</i> , 2023, 2023, 1-13.	0.4	0
404	Soft Rock Reinforcement by Bicomponent Organomineral Resin Injection. <i>Journal of Mining Science</i> , 2022, 58, 859-867.	0.1	0
405	Brazil splitting characteristics of coal-backfilling composite structure with different interface angles: Insights from laboratory experiment and numerical simulation. <i>Journal of Central South University</i> , 2023, 30, 189-201.	1.2	3
406	Simulating the Evolution of Non-Metallic Inclusions During the Forging Process. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2023, 145, .	1.3	0
407	Micro-scale Fracturing Mechanisms in Rocks During Tensile Failure. <i>Rock Mechanics and Rock Engineering</i> , 2023, 56, 4019-4041.	2.6	9
408	Failure analysis of the edge-notched beam test on fluid-exposed Berea Sandstone. <i>Acta Geotechnica</i> , 2023, 18, 4035-4053.	2.9	4
409	Population Balance Modeling and Mechanistic Analysis of Inorganic Pigment Dispersion in a High-Speed Disk Disperser and a Vertical Bead Mill. <i>Industrial & Engineering Chemistry Research</i> , 2023, 62, 5109-5124.	1.8	0
410	Structural properties of volcanic precursors-based geopolymers before and after natural weathering. <i>Ceramics International</i> , 2023, 49, 21892-21902.	2.3	2
411	Micro- and Macro-scale Mechanical Properties of Meta-cherts as Concrete Aggregates. <i>Journal of Advanced Concrete Technology</i> , 2023, 21, 284-293.	0.8	1
412	A Review of Mechanical Properties and Rockburst Investigation of Transversely Isotropic Rocks by Experimental Technique. <i>Materials</i> , 2023, 16, 3183.	1.3	14
423	Crack Instigation and Propagation of Transversely Isotropic Biotite Gneiss. <i>Lecture Notes in Civil Engineering</i> , 2023, , 299-308.	0.3	0