

Hehua Zhu

List of Publications by Year in descending order

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174
papers

5,297
citations

81434

41
h-index

145109

60
g-index

176
all docs

176
docs citations

176
times ranked

3200
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study on unfilled and filled crack propagation for rock-like brittle material. Theoretical and Applied Fracture Mechanics, 2014, 72, 110-120.	2.1	194
2	The effect of weak interlayer on the failure pattern of rock mass around tunnel “ Scaled model tests and numerical analysis. Tunnelling and Underground Space Technology, 2013, 35, 207-218.	3.0	193
3	Effect of Model Scale and Particle Size Distribution on PFC3D Simulation Results. Rock Mechanics and Rock Engineering, 2014, 47, 2139-2156.	2.6	178
4	Three-Dimensional Hoek-Brown Strength Criterion for Rocks. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 1128-1135.	1.5	141
5	Automatic extraction of discontinuity orientation from rock mass surface 3D point cloud. Computers and Geosciences, 2016, 95, 18-31.	2.0	99
6	Experimental and analytical study on longitudinal joint opening of concrete segmental lining. Tunnelling and Underground Space Technology, 2015, 46, 52-63.	3.0	94
7	A new method for automated discontinuity trace mapping on rock mass 3D surface model. Computers and Geosciences, 2016, 89, 118-131.	2.0	86
8	Integration of three dimensional discontinuous deformation analysis (DDA) with binocular photogrammetry for stability analysis of tunnels in blocky rockmass. Tunnelling and Underground Space Technology, 2016, 51, 30-40.	3.0	86
9	Study of scale effect on intact rock strength using particle flow modeling. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 1320-1328.	2.6	85
10	A GENERALIZED AND EFFICIENT METHOD FOR FINITE COVER GENERATION IN THE NUMERICAL MANIFOLD METHOD. International Journal of Computational Methods, 2013, 10, 1350028.	0.8	82
11	Automatic characterization of rock mass discontinuities using 3D point clouds. Engineering Geology, 2019, 259, 105131.	2.9	82
12	A progressive model to simulate the full mechanical behavior of concrete segmental lining longitudinal joints. Engineering Structures, 2015, 93, 97-113.	2.6	81
13	An improved meshless Shepard and least squares method possessing the delta property and requiring no singular weight function. Computational Mechanics, 2014, 53, 343-357.	2.2	78
14	Development of distress condition index of asphalt pavements using LTPP data through structural equation modeling. Transportation Research Part C: Emerging Technologies, 2016, 68, 58-69.	3.9	78
15	A multi-shell cover algorithm for contact detection in the three dimensional discontinuous deformation analysis. Theoretical and Applied Fracture Mechanics, 2014, 72, 136-149.	2.1	74
16	A case history of shield tunnel crossing through group pile foundation of a road bridge with pile underpinning technologies in Shanghai. Tunnelling and Underground Space Technology, 2015, 45, 20-33.	3.0	72
17	A multiphase micromechanical model for hybrid fiber reinforced concrete considering the aggregate and ITZ effects. Construction and Building Materials, 2016, 114, 839-850.	3.2	68
18	Characterization of semi-top-down excavation for subway station in Shanghai soft ground. Tunnelling and Underground Space Technology, 2017, 68, 244-261.	3.0	68

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19	Quantitative assessments of the correlations between rock mass rating (RMR) and geological strength index (GSI). <i>Tunnelling and Underground Space Technology</i> , 2019, 83, 73-81.	3.0	66
20	Condition assessment of shield tunnel using a new indicator: The tunnel serviceability index. <i>Tunnelling and Underground Space Technology</i> , 2017, 67, 98-106.	3.0	61
21	A novel multi-scale model for predicting the thermal damage of hybrid fiber-reinforced concrete. <i>International Journal of Damage Mechanics</i> , 2020, 29, 19-44.	2.4	61
22	Challenges and Development Prospects of Ultra-Long and Ultra-Deep Mountain Tunnels. <i>Engineering</i> , 2019, 5, 384-392.	3.2	57
23	Laboratory model tests and field investigations of EPB shield machine tunnelling in soft ground in Shanghai. <i>Tunnelling and Underground Space Technology</i> , 2011, 26, 1-14.	3.0	55
24	Modification of a generalized three-dimensional Hoek-Brown strength criterion. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 59, 80-96.	2.6	55
25	A two-dimensional micromechanical damage-healing model on microcrack-induced damage for microcapsule-enabled self-healing cementitious composites under tensile loading. <i>International Journal of Damage Mechanics</i> , 2015, 24, 95-115.	2.4	55
26	A micromechanical study of the breakage mechanism of microcapsules in concrete using PFC2D. <i>Construction and Building Materials</i> , 2016, 115, 452-463.	3.2	55
27	Modeling microcapsule-enabled self-healing cementitious composite materials using discrete element method. <i>International Journal of Damage Mechanics</i> , 2017, 26, 340-357.	2.4	55
28	Equivalent discrete fracture networks for modelling fluid flow in highly fractured rock mass. <i>Engineering Geology</i> , 2017, 229, 21-30.	2.9	55
29	A continuous/discontinuous deformation analysis (CDDA) method based on deformable blocks for fracture modeling. <i>Frontiers of Structural and Civil Engineering</i> , 2013, 7, 369-378.	1.2	52
30	A new way to treat material discontinuities in the numerical manifold method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 3296-3308.	3.4	50
31	HIGH ROCK SLOPE STABILITY ANALYSIS USING THE ENRICHED MESHLESS SHEPARD AND LEAST SQUARES METHOD. <i>International Journal of Computational Methods</i> , 2011, 08, 209-228.	0.8	49
32	A simplified multiscale damage model for the transversely isotropic shale rocks under tensile loading. <i>International Journal of Damage Mechanics</i> , 2016, 25, 705-726.	2.4	49
33	A multi-phase micromechanical model for unsaturated concrete repaired using the electrochemical deposition method. <i>International Journal of Solids and Structures</i> , 2013, 50, 3875-3885.	1.3	48
34	Two-phase flow pipe network method for simulation of CO ₂ sequestration in fractured saline aquifers. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 98, 39-53.	2.6	48
35	Three-dimensional tunnel face extrusion and reinforcement effects of underground excavations in deep rock masses. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 150, 104999.	2.6	48
36	Research progress of the thermophysical and mechanical properties of concrete subjected to freeze-thaw cycles. <i>Construction and Building Materials</i> , 2022, 330, 127254.	3.2	48

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37	Two-Dimensional Discrete Element Theory for Rough Particles. <i>International Journal of Geomechanics</i> , 2009, 9, 20-33.	1.3	47
38	Tunnel stability assessment by 3D DDA-key block analysis. <i>Tunnelling and Underground Space Technology</i> , 2018, 71, 210-214.	3.0	46
39	Experimental study of tunnel segmental joints subjected to elevated temperature. <i>Tunnelling and Underground Space Technology</i> , 2016, 53, 46-60.	3.0	44
40	An elasto-viscoplastic model for soft rock around tunnels considering overconsolidation and structure effects. <i>Computers and Geotechnics</i> , 2013, 50, 6-16.	2.3	43
41	Experimental studies on the gas temperature and smoke back-layering length of fires in a shallow urban road tunnel with large cross-sectional vertical shafts. <i>Tunnelling and Underground Space Technology</i> , 2019, 83, 565-576.	3.0	43
42	A numerical study on the feasibility and efficiency of point smoke extraction strategies in large cross-section shield tunnel fires using CFD modeling. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 44, 158-170.	1.7	42
43	Numerical study on the smoke control using point extraction strategy in a large cross-section tunnel in fire. <i>Tunnelling and Underground Space Technology</i> , 2018, 82, 455-467.	3.0	42
44	Unified pipe network method for simulation of water flow in fractured porous rock. <i>Journal of Hydrology</i> , 2017, 547, 80-96.	2.3	41
45	Stochastic micromechanical predictions for the effective properties of concrete considering the interfacial transition zone effects. <i>International Journal of Damage Mechanics</i> , 2018, 27, 1252-1271.	2.4	41
46	Effect of chloride attack on the bonded concrete system repaired by UHPC. <i>Construction and Building Materials</i> , 2021, 272, 121971.	3.2	41
47	Geostatistical method for inferring RMR ahead of tunnel face excavation using dynamically exposed geological information. <i>Engineering Geology</i> , 2017, 228, 214-223.	2.9	40
48	Automated method for extracting and analysing the rock discontinuities from point clouds based on digital surface model of rock mass. <i>Engineering Geology</i> , 2018, 239, 109-118.	2.9	40
49	Strain localization analyses of idealized sands in biaxial tests by distinct element method. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2010, 4, 208-222.	0.4	39
50	Micromechanical models for saturated concrete repaired by the electrochemical deposition method. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 1067-1082.	1.3	39
51	A 3D computational homogenization model for porous material and parameters identification. <i>Computational Materials Science</i> , 2015, 96, 536-548.	1.4	37
52	Optimal Thresholds for Pavement Preventive Maintenance Treatments Using LTPP Data. <i>Journal of Transportation Engineering Part A: Systems</i> , 2017, 143, .	0.8	37
53	The effect of technical installations on evacuation performance in urban road tunnel fires. <i>Tunnelling and Underground Space Technology</i> , 2021, 107, 103608.	3.0	37
54	Experimental investigation and multi-level modeling of the effective thermal conductivity of hybrid micro-fiber reinforced cementitious composites at elevated temperatures. <i>Composite Structures</i> , 2021, 256, 112988.	3.1	35

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55	Analytical Solution for Deep Circular Tunnels in Rock with Consideration of Disturbed zone, 3D Strength and Large Strain. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 1391-1410.	2.6	35
56	Multiscale modelling for the ultra-high performance concrete: From hydration kinetics to macroscopic elastic moduli. <i>Construction and Building Materials</i> , 2020, 247, 118541.	3.2	34
57	Contact detection between polygonal blocks based on a novel multi-cover system for discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2019, 111, 56-65.	2.3	33
58	Characterizing and analyzing the residual interfacial behavior of steel fibers embedded into cement-based matrices after exposure to high temperatures. <i>Composites Part B: Engineering</i> , 2020, 191, 107933.	5.9	33
59	Similarity search and performance prediction of shield tunnels in operation through time series data mining. <i>Automation in Construction</i> , 2020, 114, 103178.	4.8	33
60	Semi-automatic extraction of rock discontinuities from point clouds using the ISODATA clustering algorithm and deviation from mean elevation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 110, 76-87.	2.6	32
61	Estimation of fracture trace length distributions using probability weighted moments and L-moments. <i>Engineering Geology</i> , 2014, 168, 69-85.	2.9	31
62	A two-dimensional micromechanical damageâ€œhealing model on microcrack-induced damage for microcapsule-enabled self-healing cementitious composites under compressive loading. <i>International Journal of Damage Mechanics</i> , 2016, 25, 727-749.	2.4	31
63	A nonlinear semi-concurrent multiscale method for fractures. <i>International Journal of Impact Engineering</i> , 2016, 87, 65-82.	2.4	30
64	Development of a novel bio-inspired cement-based composite material to improve the fire resistance of engineering structures. <i>Construction and Building Materials</i> , 2019, 225, 99-111.	3.2	30
65	3D mapping of discontinuity traces using fusion of point cloud and image data. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 2789-2801.	1.6	30
66	Multiscale modelling of hydro-mechanical couplings in quasi-brittle materials. <i>International Journal of Fracture</i> , 2017, 204, 1-27.	1.1	29
67	Tunnel condition assessment via cloud modelâ€œbased random forests and selfâ€œtraining approach. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 164-179.	6.3	29
68	A constitutive model based on the modified generalized three-dimensional Hoekâ€œBrown strength criterion. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 98, 78-87.	2.6	28
69	A modified method of discontinuity trace mapping using three-dimensional point clouds of rock mass surfaces. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 571-586.	3.7	28
70	Novel SfM-DLT method for metro tunnel 3D reconstruction and Visualization. <i>Underground Space (China)</i> , 2021, 6, 134-141.	3.4	28
71	Differential-scheme based micromechanical framework for saturated concrete repaired by the electrochemical deposition method. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 5183-5193.	1.3	27
72	Case study: performance effectiveness and cost-benefit analyses of open-graded friction course pavements in Tennessee. <i>International Journal of Pavement Engineering</i> , 2017, 18, 957-970.	2.2	27

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73	Micromechanical framework for saturated concrete repaired by the electrochemical deposition method with interfacial transition zone effects. <i>International Journal of Damage Mechanics</i> , 2017, 26, 210-228.	2.4	27
74	Condition evaluation of urban metro shield tunnels in Shanghai through multiple indicators multiple causes model combined with multiple regression method. <i>Tunnelling and Underground Space Technology</i> , 2019, 85, 170-181.	3.0	27
75	Laboratory tests on conditioning the sandy cobble soil for EPB shield tunnelling and its field application. <i>Tunnelling and Underground Space Technology</i> , 2020, 105, 103512.	3.0	27
76	A New Version of the Generalized Zhang's "Zhu Strength Criterion and a Discussion on Its Smoothness and Convexity. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 4265-4281.	2.6	27
77	An integrated parameter prediction framework for intelligent TBM excavation in hard rock. <i>Tunnelling and Underground Space Technology</i> , 2021, 118, 104196.	3.0	26
78	Coal seam surface modeling and updating with multi-source data integration using Bayesian Geostatistics. <i>Engineering Geology</i> , 2013, 164, 208-221.	2.9	25
79	A multiphase micromechanical model for unsaturated concrete repaired by electrochemical deposition method with the bonding effects. <i>International Journal of Damage Mechanics</i> , 2018, 27, 1307-1324.	2.4	24
80	Development of a web-based information system for shield tunnel construction projects. <i>Tunnelling and Underground Space Technology</i> , 2013, 37, 146-156.	3.0	23
81	Estimation of the fracture diameter distributions using the maximum entropy principle. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 72, 127-137.	2.6	23
82	Experimental study on physical properties of soft soil after high temperature exposure. <i>Engineering Geology</i> , 2016, 204, 14-22.	2.9	23
83	Machine learning to inform tunnelling operations: recent advances and future trends. <i>Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction</i> , 2020, 173, 74-95.	1.1	23
84	Experimental investigation on the evacuation performance of pedestrians in a three-lane urban tunnel with natural ventilation in a fire scenario. <i>Tunnelling and Underground Space Technology</i> , 2021, 108, 103634.	3.0	23
85	A mixed cover meshless method for elasticity and fracture problems. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 95, 73-103.	2.1	22
86	Micromechanics based multi-level model for predicting the coefficients of thermal expansion of hybrid fiber reinforced concrete. <i>Construction and Building Materials</i> , 2018, 190, 948-963.	3.2	22
87	Interface Characterization Between Polyethylene/ Silica in Engineered Cementitious Composites by Molecular Dynamics Simulation. <i>Molecules</i> , 2019, 24, 1497.	1.7	22
88	Probabilistic performance prediction of shield tunnels in operation through data mining. <i>Sustainable Cities and Society</i> , 2019, 44, 819-829.	5.1	22
89	Improvements in DDA program for rockslides with local in-circle contact method and modified open-close iteration. <i>Engineering Geology</i> , 2020, 265, 105433.	2.9	22
90	Experimental investigation of pedestrian evacuation using an extra-long steep-slope evacuation path in a high altitude tunnel fire. <i>Sustainable Cities and Society</i> , 2019, 46, 101423.	5.1	21

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91	Nonlocal strong forms of thin plate, gradient elasticity, magneto-electro-elasticity and phase-field fracture by nonlocal operator method. <i>Engineering With Computers</i> , 2023, 39, 23-44.	3.5	21
92	Study on real-time heat release rate inversion for dynamic reconstruction and visualization of tunnel fire scenarios. <i>Tunnelling and Underground Space Technology</i> , 2022, 122, 104333.	3.0	21
93	Differential-scheme based micromechanical framework for unsaturated concrete repaired by the electrochemical deposition method. <i>Acta Mechanica</i> , 2017, 228, 415-431.	1.1	20
94	Characterizing the thermal properties of hybrid polypropylene-steel fiber reinforced concrete under heat exposure: Insights into fiber geometry and orientation distribution. <i>Composite Structures</i> , 2021, 275, 114457.	3.1	20
95	Coupled thermo-hydro-mechanical-phase field modeling for fire-induced spalling in concrete. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 389, 114327.	3.4	20
96	Assessment and structural improvement on the performance of soil chamber system of EPB shield assisted with DEM modeling. <i>Tunnelling and Underground Space Technology</i> , 2020, 96, 103092.	3.0	19
97	Reaction-degree-based multi-scale predictions for the effective properties of ultra-high-performance concrete. <i>Magazine of Concrete Research</i> , 2021, , 1-12.	0.9	19
98	A 3D analytical model for the probabilistic characteristics of self-healing model for concrete using spherical microcapsule. <i>Computers and Concrete</i> , 2015, 15, 37-54.	0.7	19
99	Mitigating the damage of ultra-high performance concrete at elevated temperatures using synergistic flame-retardant polymer fibres. <i>Cement and Concrete Research</i> , 2022, 158, 106835.	4.6	19
100	Thermo-elastoplastic constitutive model for unsaturated soils. <i>Acta Geotechnica</i> , 2016, 11, 1287-1302.	2.9	18
101	A novel damage model based on micromechanics for hybrid fiber reinforced cementitious composites under uniaxial compression. <i>International Journal of Damage Mechanics</i> , 2019, 28, 1095-1132.	2.4	18
102	Stochastic micromechanical predictions for the probabilistic behavior of saturated concrete repaired by the electrochemical deposition method. <i>International Journal of Damage Mechanics</i> , 2020, 29, 435-453.	2.4	18
103	Theoretical and numerical study on mass flow rates of smoke exhausted from short vertical shafts in naturally ventilated urban road tunnel fires. <i>Tunnelling and Underground Space Technology</i> , 2021, 111, 103782.	3.0	18
104	A stochastic micromechanical model for fiber-reinforced concrete using maximum entropy principle. <i>Acta Mechanica</i> , 2018, 229, 2719-2735.	1.1	17
105	The last entrance plane method for contact indeterminacy between convex polyhedral blocks. <i>Computers and Geotechnics</i> , 2020, 117, 103283.	2.3	17
106	Theoretical and experimental studies on the fire-induced smoke flow in naturally ventilated tunnels with large cross-sectional vertical shafts. <i>Tunnelling and Underground Space Technology</i> , 2020, 99, 103359.	3.0	17
107	Multi-level micromechanical analysis of elastic properties of ultra-high performance concrete at high temperatures: Effects of imperfect interface and inclusion size. <i>Composite Structures</i> , 2021, 262, 113548.	3.1	17
108	Excavation-Damaged Zone around Tunnel Surface under Different Release Ratios of Displacement. <i>International Journal of Geomechanics</i> , 2017, 17, .	1.3	16

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109	A stochastic micromechanical framework for hybrid fiber reinforced concrete. <i>Cement and Concrete Composites</i> , 2019, 102, 39-54.	4.6	16
110	Multiphysics coupling model for the crack repairing process using electrochemical deposition. <i>Construction and Building Materials</i> , 2020, 264, 120625.	3.2	15
111	A Unified Constitutive Model for Rock Based on Newly Modified GZZ Criterion. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 921-935.	2.6	15
112	A novel micromechanical model of residual fracture energy of hooked-end steel fiber reinforced concrete exposed to high temperature. <i>Construction and Building Materials</i> , 2021, 278, 122211.	3.2	15
113	Three-dimensional forward analysis and real-time design of deep tunneling based on digital in-situ testing. <i>International Journal of Mechanical Sciences</i> , 2022, 226, 107385.	3.6	15
114	Effective Properties of Composites with Periodic Random Packing of Ellipsoids. <i>Materials</i> , 2017, 10, 112.	1.3	14
115	Smoke flow in full-scale urban road tunnel fires with large cross-sectional vertical shafts. <i>Tunnelling and Underground Space Technology</i> , 2020, 104, 103536.	3.0	14
116	Modeling and Visualization of Underground Structures. <i>Journal of Computing in Civil Engineering</i> , 2009, 23, 348-354.	2.5	13
117	ARBITRARY DISCONTINUITIES IN THE NUMERICAL MANIFOLD METHOD. <i>International Journal of Computational Methods</i> , 2011, 08, 315-347.	0.8	13
118	Combination of Kriging methods and multi-fractal analysis for estimating spatial distribution of geotechnical parameters. <i>Bulletin of Engineering Geology and the Environment</i> , 2016, 75, 413-423.	1.6	13
119	A feasibility study of the measuring accuracy and capability of wireless sensor networks in tunnel monitoring. <i>Frontiers of Structural and Civil Engineering</i> , 2012, 6, 111.	1.2	12
120	Centroid sliding pyramid method for removability and stability analysis of fractured hard rock. <i>Acta Geotechnica</i> , 2017, 12, 627-644.	2.9	12
121	Acceleration of contact detection between arbitrarily shaped polyhedra based on multi-cover methods in three dimensional discontinuous deformation analysis. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 132, 104387.	2.6	12
122	Statistical micromechanical damage model for SH-SFRC under tensile load considering the interfacial slip-softening and matrix spalling effects. <i>International Journal of Damage Mechanics</i> , 2021, 30, 1423-1449.	2.4	12
123	Study on spilled liquid from a continuous leakage in sloped tunnels. <i>Tunnelling and Underground Space Technology</i> , 2022, 120, 104290.	3.0	12
124	A PU-based meshless Shepard interpolation method satisfying delta property. <i>Engineering Analysis With Boundary Elements</i> , 2010, 34, 9-16.	2.0	11
125	Insight into the Mechanical Performance of the UHPC Repaired Cementitious Composite System after Exposure to High Temperatures. <i>Materials</i> , 2021, 14, 4095.	1.3	11
126	Three-dimensional discontinuous deformation analysis with explicit contact formulation and block-wise multicore CPU acceleration. <i>Computers and Geotechnics</i> , 2021, 139, 104410.	2.3	11

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127	DEM Analyses of an Uplift Failure Mechanism with Pipe Buried in Cemented Granular Ground. International Journal of Geomechanics, 2015, 15, .	1.3	10
128	Fracture and Delamination Assessment of Prestressed Composite Concrete for Use with Pipe Jacking Method. Mathematical Problems in Engineering, 2015, 2015, 1-11.	0.6	9
129	Independent cover meshless method using a polynomial approximation. International Journal of Fracture, 2017, 203, 63-80.	1.1	9
130	Experimental study on working parameters of earth pressure balance shield machine tunneling in soft ground. Frontiers of Architecture and Civil Engineering in China, 2008, 2, 350-358.	0.4	8
131	Method for Estimating Normal Contact Parameters in Collision Modeling Using Discontinuous Deformation Analysis. International Journal of Geomechanics, 2017, 17, .	1.3	8
132	Differential scheme-based stochastic micromechanical framework for saturated concrete repaired by EDM. Acta Mechanica, 2019, 230, 4287-4301.	1.1	8
133	Improved friction force calculation with an augmented open-close iteration formulation in discontinuous deformation analysis. Computers and Geotechnics, 2021, 130, 103932.	2.3	8
134	Tailoring the thermal conductivity of functional cementitious composites with micro core-shell particles: A multiscale homogenization study. Construction and Building Materials, 2021, 300, 124289.	3.2	8
135	Discussion: Machine learning to inform tunnelling operations: recent advances and future trends. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2020, 173, 180-181.	1.1	8
136	Effects of Sidewall Brightness on LED Lighting Environment and Visual Performance in Road Tunnels. Applied Sciences (Switzerland), 2022, 12, 4919.	1.3	8
137	Evaluation of Self-Healing Properties of Mortar Containing Microencapsulated Epoxy Resin. , 2015, , .		7
138	Contributions of condition measurements on the latent pavement condition by confirmatory factor analysis. Transportmetrica A: Transport Science, 2019, 15, 2-17.	1.3	7
139	Two-phase analytical model of seepage during grout consolidation around shield tunnel considering the temporal variation in viscosity and the infiltration effect. European Journal of Environmental and Civil Engineering, 2022, 26, 4392-4415.	1.0	7
140	Continuum damage-healing framework for the hydration induced self-healing of the cementitious composite. International Journal of Damage Mechanics, 2021, 30, 681-699.	2.4	7
141	Materials, Theories and Experiments of Microcapsule Self-Healing Method " A Review. , 2014, , .		6
142	A locking-free nine-DOF triangular plate element with incompatible approximation. International Journal for Numerical Methods in Engineering, 2017, 109, 915-935.	1.5	6
143	Locking-free triangular plate element using polynomial incompatible approximation for analysis of cracked thick-thin plates. International Journal of Fracture, 2018, 211, 1-12.	1.1	6
144	Angle-Based Contact Detection in Discontinuous Deformation Analysis. Rock Mechanics and Rock Engineering, 2020, 53, 5545-5569.	2.6	6

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145	Electrochemical deposition induced continuum damage-healing framework for the cementitious composite. <i>International Journal of Damage Mechanics</i> , 0, , 105678952199187.	2.4	6
146	A Three-Dimensional (3D) Semi-analytical Solution for the Ultimate End-Bearing Capacity of Rock-Socketed Shafts. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 611-627.	2.6	6
147	Experimental study on the progressive failure and its anchoring effect of weak-broken rock vertical slope. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2011, 5, 208-224.	0.4	5
148	The Fracture Influence on the Energy Loss of Compressed Air Energy Storage in Hard Rock. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	0.6	5
149	The Deformation and Failure Analysis of Rock Mass Around Tunnel by Coupling Finite Difference Method and Discrete Element Method. <i>Indian Geotechnical Journal</i> , 2019, 49, 421-436.	0.7	5
150	Experimental study on mechanical behaviors of segmental joints with ductile-iron joint panels for deep-buried shield tunnels bearing high inner water pressure. <i>Tunnelling and Underground Space Technology</i> , 2022, 127, 104590.	3.0	5
151	A Simple High-Order Shear Deformation Triangular Plate Element with Incompatible Polynomial Approximation. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 975.	1.3	4
152	Three-dimensional deformable distinct element method with polyhedral elements and cloud GPGPU acceleration. <i>Computers and Geotechnics</i> , 2022, 146, 104732.	2.3	4
153	Full-scale experimental investigation on progressive failure characteristics of shield segmental lining connected through segmental joints containing ductile-iron joint panels. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, .	1.9	4
154	An Experimental Study on the Repair of Deteriorated Concrete by the Electrochemical Deposition Method. , 2015, , .		3
155	A fast automatic extraction method for rock mass discontinuity orientation using fast k-means++ and fast silhouette based on 3D point cloud. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 570, 052075.	0.2	3
156	Insight into the inherent randomness of concrete properties using the stochastic micromechanics. <i>Probabilistic Engineering Mechanics</i> , 2020, 61, 103064.	1.3	3
157	An Empirical Swelling Pressure Kinetics Model for Bentonite and Bentonite-Based Materials Hydrated under Constant Volume Conditions. <i>International Journal of Geomechanics</i> , 2022, 22, .	1.3	3
158	Three-dimensional discontinuous deformation analysis derived from the virtual work principle with a simplex integral on the boundary. <i>Computers and Geotechnics</i> , 2022, 146, 104710.	2.3	3
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