Lian-heng Zhao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6418237/publications.pdf

Version: 2024-02-01

107	1,862	236912	377849
papers	citations	h-index	g-index
108	108	108	1136
all docs	docs citations	times ranked	citing authors

#	Article	lF	CITATIONS
1	Investigation of permanent displacements of near-fault seismic slopes by a general sliding block model. Landslides, 2022, 19, 187-197.	5.4	17
2	Threeâ€dimensional upperâ€bound limit analysis of ultimate pullout capacity of anchor plates using variation method. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 1356-1379.	3.3	5
3	Upper-Bound Limit Analysis of Rock Slope Stability with Tensile Strength Cutoff Based on the Optimization Strategy of Dividing the Tension Zone and Shear Zone. International Journal of Geomechanics, 2022, 22, .	2.7	6
4	Back analysis of shear strength parameters for progressive landslides: case study of the Caifengyan landslide, China. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	3.5	3
5	Limit state analysis of stepped sliding of jointed rock slope based on tensile-shear composite failure mode of rock bridges. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	3.5	7
6	Numerical analysis of debris flows along the Sichuan-Tibet railway based on an improved 3D sphere DDA model and UAV-based photogrammetry. Engineering Geology, 2022, 305, 106722.	6.3	4
7	Regional-scale modeling of rainfall-induced landslides under random rainfall patterns. Environmental Modelling and Software, 2022, 155, 105454.	4.5	9
8	Numerical investigation of the failure mechanisms of soil–rock mixture slopes by material point method. Computers and Geotechnics, 2022, 150, 104898.	4.7	14
9	Stability analysis of slopes reinforced with anchor cables and optimal design of anchor cable parameters. European Journal of Environmental and Civil Engineering, 2021, 25, 2425-2440.	2.1	23
10	Statistical analysis and comparative study of multi-scale 2D and 3D shape features for unbound granular geomaterials. Transportation Geotechnics, 2021, 26, 100377.	4.5	15
11	Back-analysis of Donghekou landslide using improved DDA considering joint roughness degradation. Landslides, 2021, 18, 1925-1935.	5.4	25
12	Micromechanical study on hard rock strainburst using the discrete element method. Tunnelling and Underground Space Technology, 2021, 109, 103793.	6.2	7
13	Study on the ultimate bearing capacity of a strip footing influenced by an irregular underlying cavity in karst areas. Soils and Foundations, 2021, 61, 259-270.	3.1	3
14	Stability Analysis of Deep Rectangular Tunnels Using Adaptive Finite Element Limit Analysis with Hoek–Brown Failure Criterion. Arabian Journal for Science and Engineering, 2021, 46, 10931.	3.0	2
15	Variation Analysis of Uplift Bearing Characteristics of Strip Anchor Plate in Nonhomogeneous Materials. International Journal of Geomechanics, 2021, 21, .	2.7	7
16	Quantifying the effects of elongation and flatness on the shear behavior of realistic 3D rock aggregates based on DEM modeling. Advanced Powder Technology, 2021, 32, 1318-1332.	4.1	15
17	Reliability parameter back analysis of bedding rock slope with multi-layer slide surfaces. Bulletin of Engineering Geology and the Environment, 2021, 80, 7227-7239.	3.5	6
18	Influence analysis of irregular bedrock surface on failure characteristics of bedrock and overburden layer slope by material point method. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	1

#	Article	IF	Citations
19	DEM simulation of the shear behaviour of breakable granular materials with various angularities. Advanced Powder Technology, 2021, 32, 4058-4069.	4.1	15
20	Reliability back analysis of a 3D wedge slope based on the nonlinear Barton-Bandis failure criterion. Engineering Failure Analysis, 2021, 128, 105601.	4.0	9
21	Upper-bound limit analysis of passive failure of a 3D shallow tunnel face under the bidirectional inclined ground surfaces. Computers and Geotechnics, 2020, 118, 103310.	4.7	11
22	Reliability back analysis of landslide shear strength parameters based on a general nonlinear failure criterion. International Journal of Rock Mechanics and Minings Sciences, 2020, 126, 104189.	5.8	23
23	An analysis of the effects of the size ratio and fines content on the shear behaviors of binary mixtures using DEM. Computers and Geotechnics, 2020, 118, 103353.	4.7	31
24	3D shape quantification and random packing simulation of rock aggregates using photogrammetry-based reconstruction and discrete element method. Construction and Building Materials, 2020, 262, 119986.	7.2	39
25	Modeling the progressive entrainment of bed sediment by viscous debris flows using the three-dimensional SC-HBP-SPH method. Water Research, 2020, 182, 116031.	11.3	27
26	Comparative study of material point method and upper bound limit analysis in slope stability analysis. Transportation Safety and Environment, 2020, 2, 44-57.	2.1	3
27	Barton-Bandis criterion-based system reliability analysis of rock slopes. Journal of Central South University, 2020, 27, 2123-2133.	3.0	6
28	Rock slope reliability analysis using Barton-Bandis failure criterion with modified pseudo-dynamic approach. Soil Dynamics and Earthquake Engineering, 2020, 139, 106310.	3.8	14
29	Active Stability Analysis of 3D Shallow Tunnel Face with Longitudinally Inclined Ground Surface Based on Nonlinear Mohr–Coulomb Failure Criterion. International Journal of Geomechanics, 2020, 20, 04020198.	2.7	4
30	Meso-scale study on compaction characteristics of asphalt mixtures in Superpave gyratory compaction using SmartRock sensors. Construction and Building Materials, 2020, 262, 120874.	7.2	33
31	Investigation on seismic response of a three-stage soil slope supported by anchor frame structure. Journal of Central South University, 2020, 27, 1290-1305.	3.0	18
32	Spatially distributed landslide triggering analyses accounting for coupled infiltration and volume change. Landslides, 2020, 17, 2811-2824.	5.4	12
33	A digitalized 2D particle database for statistical shape analysis and discrete modeling of rock aggregate. Construction and Building Materials, 2020, 247, 117906.	7.2	30
34	System reliability analysis of seismic pseudo-static stability of rock wedge based on nonlinear Bartonâ€"Bandis criterion. Journal of Central South University, 2020, 27, 3450-3463.	3.0	13
35	A method for seismic stability analysis of jointed rock slopes using Barton-Bandis failure criterion. International Journal of Rock Mechanics and Minings Sciences, 2020, 136, 104487.	5.8	15
36	Stability Analysis of Fractured Rock Slopes with Vertical Cracks Subjected to the Hydraulic Effect Based on the Hoek–Brown Failure Criterion. Lecture Notes in Civil Engineering, 2020, , 229-250.	0.4	0

3

#	Article	IF	Citations
37	Water Inflow Prediction and Grouting Design for Tunnel considering Nonlinear Hydraulic Conductivity. KSCE Journal of Civil Engineering, 2019, 23, 4132-4140.	1.9	15
38	Limit variation analysis of shallow rectangular tunnels collapsing with double-layer rock mass based on a three-dimensional failure mechanism. Journal of Central South University, 2019, 26, 1794-1806.	3.0	5
39	Influence of non-dimensional strength parameters on the seismic stability of cracked slopes. Journal of Mountain Science, 2019, 16, 153-167.	2.0	12
40	New insights into the effect of interparticle friction on the critical state friction angle of granular materials. Computers and Geotechnics, 2019, 113, 103105.	4.7	30
41	Characteristics of failure area and failure mechanism of a bedding rockslide in Libo County, Guizhou, China. Landslides, 2019, 16, 1367-1374.	5.4	35
42	Study on roof collapse of deep circular cavities in jointed rock masses using adaptive finite element limit analysis. Computers and Geotechnics, 2019, 111, 42-55.	4.7	41
43	Stability Analysis of a Layered Slope with Failure Mechanism of a Composite Slip Surface. International Journal of Geomechanics, 2019, 19, .	2.7	11
44	Fourier-shape-based reconstruction of rock joint profile with realistic unevenness and waviness features. Journal of Central South University, 2019, 26, 3103-3113.	3.0	11
45	Dimensionless Parameter Diagrams for the Active and Passive Stability of a Shallow 3D Tunnel Face. KSCE Journal of Civil Engineering, 2019, 23, 866-878.	1.9	11
46	Analytical solution for the limiting drainage of a mountain tunnel based on area-well theory. Tunnelling and Underground Space Technology, 2019, 84, 22-30.	6.2	19
47	Upper Bound Analysis of the Effect of Footing Roughness on $N\hat{I}^3$ and the Failure Mechanism of a Strip Footing. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 659-666.	1.9	0
48	Distinct Element Modelling of a Landslide Triggered by the 5.12 Wenchuan Earthquake: A Case Study. Geotechnical and Geological Engineering, 2018, 36, 2533-2551.	1.7	11
49	Variational analysis of the ultimate pullout capacity of shallow circular anchor plates in rock foundations based on the Hoek-Brown failure criterion. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 190-197.	5.8	13
50	Upper bound analysis of ultimate pullout capacity of shallow 3-D circular plate anchors based on nonlinear Mohr-Coulomb failure criterion. Journal of Central South University, 2018, 25, 2272-2288.	3.0	12
51	Reply to the discussion by Ukritchon and Keawsawasvong on "Seismic displacement along a log-spiral failure surface with crack using rock Hoek–Brown failure criterion― Soil Dynamics and Earthquake Engineering, 2018, 115, 951-952.	3.8	0
52	Water Inflow Calculating Method and Grouting Parameters Analysis after Considering the Velocity of Groundwater. , $2018, , .$		0
53	Variation analysis of ultimate pullout capacity of shallow horizontal strip anchor plate with 2-layer overlying soil based on nonlinear M-C failure criterion. Journal of Central South University, 2018, 25, 2802-2818.	3.0	9
54	Quantitative characterization of joint roughness based on semivariogram parameters. International Journal of Rock Mechanics and Minings Sciences, 2018, 109, 1-8.	5.8	32

#	Article	IF	CITATIONS
55	Stability analysis of irregular cavities using upper bound finite element limit analysis method. Computers and Geotechnics, 2018, 103, 1-12.	4.7	15
56	An adaptive remeshing procedure for discontinuous finite element limit analysis. International Journal for Numerical Methods in Engineering, 2018, 116, 287-307.	2.8	30
57	Development mechanism for the landslide at Xinlu Village, Chongqing, China. Landslides, 2018, 15, 2075-2081.	5. 4	20
58	Reply to the discussion by Utili and Abd on "Seismic displacement along a log-spiral failure surface with crack using rock Hoek–Brown failure criterion― Soil Dynamics and Earthquake Engineering, 2018, 108, 201-202.	3.8	2
59	A closed-form solution for seismic passive earth pressure behind a retaining wall supporting cohesive–frictional backfill. Acta Geotechnica, 2017, 12, 453-461.	5.7	21
60	Three-dimensional stability analysis of a longitudinally inclined shallow tunnel face. Computers and Geotechnics, 2017, 87, 32-48.	4.7	28
61	Seismic displacement along a log-spiral failure surface with crack using rock Hoek–Brown failure criterion. Soil Dynamics and Earthquake Engineering, 2017, 99, 74-85.	3.8	35
62	Limit equilibrium analysis for rock slope stability using basic Hoek–Brown strength criterion. Journal of Central South University, 2017, 24, 2154-2163.	3.0	13
63	Limit equilibrium method (LEM) of slope stability and calculation of comprehensive factor of safety with double strength-reduction technique. Journal of Mountain Science, 2017, 14, 2311-2324.	2.0	23
64	Reconstruction of granular railway ballast based on inverse discrete Fourier transform method. Granular Matter, 2017, 19, 1.	2.2	19
65	Effect of the vertical earthquake component on permanent seismic displacement of soil slopes based on the nonlinear Mohr–Coulomb failure criterion. Soils and Foundations, 2017, 57, 237-251.	3.1	45
66	Upper-Bound Analysis of <i> N _{\hat{l}^3} </i> and Failure Mechanisms of Multiple Equally Spaced Strip Footings. International Journal of Geomechanics, 2017, 17, .	2.7	8
67	Water inflow forecasting for tunnel considering nonlinear variation of permeability coefficient. Journal of Central South University, 2017, 24, 1612-1618.	3.0	4
68	Combined influence of nonlinearity and dilation on slope stability evaluated by upper-bound limit analysis. Journal of Central South University, 2017, 24, 1602-1611.	3.0	15
69	Stability design charts for homogeneous slopes under typical conditions based on the double shear strength reduction technique. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	11
70	Rock mass collapse mechanism of concealed karst cave beneath deep tunnel. International Journal of Rock Mechanics and Minings Sciences, 2017, 91, 133-138.	5.8	66
71	Response of gravity retaining wall with anchoring frame beam supporting a steep rock slope subjected to earthquake loading. Soil Dynamics and Earthquake Engineering, 2017, 92, 633-649.	3.8	33
72	Limit equilibrium analysis for stability of soil nailed slope and optimum design of soil nailing parameters. Journal of Central South University, 2017, 24, 2496-2503.	3.0	13

#	Article	IF	CITATIONS
73	System reliability analysis of plane slide rock slope using Barton-Bandis failure criterion. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 1-11.	5.8	30
74	Limit equilibrium method for slope stability based on assumed stress on slip surface. Journal of Central South University, 2016, 23, 2972-2983.	3.0	9
75	Stability analysis of seismic slopes with cracks. Computers and Geotechnics, 2016, 77, 77-90.	4.7	53
76	Limit equilibrium stability analysis of slopes under external loads. Journal of Central South University, 2016, 23, 2382-2396.	3.0	3
77	Limit equilibrium method for rock slope stability analysis by using the Generalized Hoek–Brown criterion. International Journal of Rock Mechanics and Minings Sciences, 2016, 89, 176-184.	5.8	47
78	Ultimate bearing capacity of a strip footing placed on sand with a rigid basement. Computers and Geotechnics, 2016, 77, 115-119.	4.7	24
79	Theoretical solutions for a circular opening in an elastic–brittle–plastic rock mass incorporating the out-of-plane stress and seepage force. KSCE Journal of Civil Engineering, 2016, 20, 687-701.	1.9	39
80	Upper-bound finite element analysis of stability of tunnel face subjected to surcharge loading in cohesive-frictional soil. KSCE Journal of Civil Engineering, 2016, 20, 2270-2279.	1.9	13
81	Reliability back analysis of shear strength parameters of landslide with three-dimensional upper bound limit analysis theory. Landslides, 2016, 13, 711-724.	5.4	40
82	Limit equilibrium slope stability analysis using the nonlinear strength failure criterion. Canadian Geotechnical Journal, 2015, 52, 563-576.	2.8	48
83	Seismic active earth pressure of cohesive-frictional soil on retaining wall based on a slice analysis method. Soil Dynamics and Earthquake Engineering, 2015, 70, 133-147.	3.8	31
84	Stability charts of slopes under typical conditions developed by upper bound limit analysis. Computers and Geotechnics, 2015, 65, 233-240.	4.7	22
85	Stability analysis of unlined elliptical tunnel using finite element upper-bound method with rigid translatory moving elements. Tunnelling and Underground Space Technology, 2015, 50, 13-22.	6.2	58
86	Coupled hydro-mechanical response of saturated asphalt pavement under moving traffic load. International Journal of Pavement Engineering, 2015, 16, 125-143.	4.4	38
87	Effects of shear strength reduction strategies on safety factor of homogeneous slope based on a general nonlinear failure criterion. Computers and Geotechnics, 2015, 63, 215-228.	4.7	51
88	Effect of hydraulic distribution on the stability of a plane slide rock slope under the nonlinear Barton-Bandis failure criterion. Geomechanics and Engineering, 2015, 8, 391-414.	0.9	15
89	Study on Anti-Slide Stability of Rock Slope along River. Journal of Highway and Transportation Research and Development (English Edition), 2014, 8, 23-30.	0.1	1
90	Limiting drainage criterion for groundwater of mountain tunnel. Journal of Central South University, 2014, 21, 4660-4668.	3.0	13

#	Article	IF	CITATIONS
91	Laboratory study on the adhesive properties of ice to the asphalt pavement of highway. Cold Regions Science and Technology, 2014, 104-105, 7-13.	3.5	43
92	Solution of pavement temperature field in "Environment-Surface―system through Green's function. Journal of Central South University, 2014, 21, 2108-2116.	3.0	10
93	The influence of horizontal confinement on the bearing capacity factor $N\hat{l}^3$ of smooth strip footing. Computers and Geotechnics, 2014, 61, 127-131.	4.7	12
94	Construction of improved rigid blocks failure mechanism for ultimate bearing capacity calculation based on slip-line field theory. Journal of Central South University, 2013, 20, 1047-1057.	3.0	13
95	Discussion on Superposition Empirical Formula of Ultimate Bearing Capacity Based on the Upper Bound Limit Analysis Theory. , 2013, , .		0
96	Upper Bound Limit Analysis-Based Determination of the Influence of a Non-Associated Flow Rule on the Stability of Shallow Tunnels. Journal of Highway and Transportation Research and Development (English Edition), 2013, 7, 62-68.	0.1	0
97	Boussinesq equation-based model for flow in drainage layer of highway. Journal of Central South University, 2012, 19, 2365-2372.	3.0	5
98	Upper bound solution of supporting pressure for a shallow square tunnel based on the Hoek-Brown failure criterion. Journal of Zhejiang University: Science A, 2012, 13, 284-292.	2.4	7
99	Joined Influences of Nonlinearity and Dilation on the Ultimate Pullout Capacity of Horizontal Shallow Plate Anchors by Energy Dissipation Method. International Journal of Geomechanics, 2011, 11, 195-201.	2.7	21
100	Stability of Subgrade Slope along River Subjected to Water Level Fluctuations and Stream Erosion. Journal of Highway and Transportation Research and Development (English Edition), 2011, 5, 1-9.	0.1	4
101	Upper Bound Stability Analysis for Soil Slope with Non-Associated Flow Rule., 2011,,.		0
102	Study on Transfer Behavior of Negative Friction of Single Pile in Two-Layer Soil., 2010, , .		0
103	Method of Design for Improving the Drainage Layer of Asphalt Pavement. , 2010, , .		0
104	Engineering behaviors of reinforced gabion retaining wall based on laboratory test. Central South University, 2010, 17, 1351-1356.	0.5	20
105	Upper bound analysis of slope stability with nonlinear failure criterion based on strength reduction technique. Central South University, 2010, 17, 836-844.	0.5	33
106	Analytical solutions for stresses and displacements of cylindrical cavity expansion based on extended SMP criterion., 2010,, 337-346.		0
107	Influences of nonassociated flow rules on seismic bearing capacity factors of strip footing on soil slope by energy dissipation method. Central South University, 2007, 14, 842-847.	0.5	19