Yingbin Zhang

List of Publications by Year
in descending order

88 papers	2,494 citations	172386 29 h-index	223716 46 g-index
91 all docs	91 docs citations	91 times ranked	1501 citing authors

#	Article	IF	Citations
1	Effects of near-fault seismic loadings on run-out of large-scale landslide: A case study. Engineering Geology, 2013, 166, 216-236.	2.9	146
2	DDA validation of the mobility of earthquake-induced landslides. Engineering Geology, 2015, 194, 38-51.	2.9	126
3	7.1% efficient co-electroplated Cu₂ZnSnS₄ thin film solar cells with sputtered CdS buffer layers. Green Chemistry, 2016, 18, 550-557.	4.6	104
4	Numerical Simulation in Rockfall Analysis: A Close Comparison of 2-D and 3-D DDA. Rock Mechanics and Rock Engineering, 2013, 46, 527-541.	2.6	103
5	Effects of geometries on three-dimensional slope stability. Canadian Geotechnical Journal, 2013, 50, 233-249.	1.4	91
6	Effects of vertical seismic force on initiation of the Daguangbao landslide induced by the 2008 Wenchuan earthquake. Soil Dynamics and Earthquake Engineering, 2015, 73, 91-102.	1.9	82
7	Extension of discontinuous deformation analysis and application in cohesive-frictional slope analysis. International Journal of Rock Mechanics and Minings Sciences, 2014, 70, 533-545.	2.6	80
8	Co-electrodeposited Cu₂ZnSnS₄ thin-film solar cells with over 7% efficiency fabricated via fine-tuning of the Zn content in absorber layers. Journal of Materials Chemistry A, 2016, 4, 3798-3805.	5.2	79
9	Groundâ€Motion Prediction Equations for Subduction Interface Earthquakes in Japan Using Site Class and Simple Geometric Attenuation Functions. Bulletin of the Seismological Society of America, 2016, 106, 1518-1534.	1.1	77
10	Groundâ€Motion Prediction Equations for Subduction Slab Earthquakes in Japan Using Site Class and Simple Geometric Attenuation Functions. Bulletin of the Seismological Society of America, 2016, 106, 1535-1551.	1.1	70
11	Groundâ€Motion Prediction Equations for Shallow Crustal and Upperâ€Mantle Earthquakes in Japan Using Site Class and Simple Geometric Attenuation Functions. Bulletin of the Seismological Society of America, 2016, 106, 1552-1569.	1.1	63
12	Applying modified discontinuous deformation analysis to assess the dynamic response of sites containing discontinuities. Engineering Geology, 2018, 246, 349-360.	2.9	61
13	Dynamic simulation of landslide dam behavior considering kinematic characteristics using a coupled DDA-SPH method. Engineering Analysis With Boundary Elements, 2017, 80, 172-183.	2.0	60
14	Detection of contacts between three-dimensional polyhedral blocks for discontinuous deformation analysis. International Journal of Rock Mechanics and Minings Sciences, 2015, 78, 57-73.	2.6	57
15	Stability analysis of seismic slopes with cracks. Computers and Geotechnics, 2016, 77, 77-90.	2.3	53
16	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.	2.3	51
17	Parallel computing of three-dimensional discontinuous deformation analysis based on OpenMP. Computers and Geotechnics, 2019, 106, 304-313.	2.3	49
18	Effect of the vertical earthquake component on permanent seismic displacement of soil slopes based on the nonlinear Mohrâ€“Coulomb failure criterion. Soils and Foundations, 2017, 57, 237-251.	1.3	45

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19	An Earthquake Classification Scheme Adapted for Japan Determined by the Goodness of Fit for Groundâ€Motion Prediction Equations. Bulletin of the Seismological Society of America, 2015, 105, 2750-2763.	1.1	42
20	Development of a Coupled DDAâ€“SPH Method and its Application to Dynamic Simulation of Landslides Involving Solidâ€–Fluid Interaction. Rock Mechanics and Rock Engineering, 2020, 53, 113-131.	2.6	42
21	Reliability back analysis of shear strength parameters of landslide with three-dimensional upper bound limit analysis theory. Landslides, 2016, 13, 711-724.	2.7	40
22	Stability assessment of three-dimensional slopes with cracks. Engineering Geology, 2019, 252, 136-144.	2.9	40
23	Evaluation of impact force of rock landslides acting on structures using discontinuous deformation analysis. Computers and Geotechnics, 2019, 114, 103137.	2.3	39
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.	3.2	39
25	Seismic displacement along a log-spiral failure surface with crack using rock Hoekâ€“Brown failure criterion. Soil Dynamics and Earthquake Engineering, 2017, 99, 74-85.	1.9	35
26	A new approach for modeling landslide movement over 3D topography using 3D discontinuous deformation analysis. Computers and Geotechnics, 2017, 81, 87-97.	2.3	34
27	Excess pore pressure dissipation and solidification after liquefaction of saturated sand deposits. Soil Dynamics and Earthquake Engineering, 2013, 49, 157-164.	1.9	33
28	Nonlinear Site Models Derived from 1D Analyses for Groundâ€Motion Prediction Equations Using Site Class as the Site Parameter. Bulletin of the Seismological Society of America, 2015, 105, 2010-2022.	1.1	30
29	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.	2.6	30
30	A new algorithm to identify contact types between arbitrarily shaped polyhedral blocks for three-dimensional discontinuous deformation analysis. Computers and Geotechnics, 2016, 80, 1-15.	2.3	29
31	Improvement of joint definition and determination in three-dimensional discontinuous deformation analysis. Computers and Geotechnics, 2019, 110, 148-160.	2.3	29
32	Long-term reliability of silicon wafer-based traditional backsheet modules and double glass modules. RSC Advances, 2015, 5, 65768-65774.	1.7	27
33	CPU-accelerated explicit discontinuous deformation analysis and its application to landslide analysis. Applied Mathematical Modelling, 2020, 77, 216-234.	2.2	27
34	The slope modeling method with GIS support for rockfall analysis using 3D DDA. Geomechanics and Geoengineering, 2014, 9, 142-152.	0.9	26
35	A new approach for analyzing the velocity distribution of debris flows at typical cross-sections. Natural Hazards, 2014, 74, 2053-2070.	1.6	25
36	Temperature-dependent peak shear-strength criterion for granite fractures. Engineering Geology, 2020, 269, 105552.	2.9	25

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37	Back-analysis of Donghekou landslide using improved DDA considering joint roughness degradation. Landslides, 2021, 18, 1925-1935.	2.7	25
38	A new DDA model for kinematic analyses of rockslides on complex 3-D terrain. Bulletin of Engineering Geology and the Environment, 2018, 77, 555-571.	1.6	24
39	Extension of three-dimensional discontinuous deformation analysis to frictional-cohesive materials. International Journal of Rock Mechanics and Minings Sciences, 2016, 86, 65-79.	2.6	22
40	An analytical method to evaluate the effect of a turning corner on 3D slope stability. Computers and Geotechnics, 2013, 53, 40-45.	2.3	19
41	A full-stage parallel architecture of three-dimensional discontinuous deformation analysis using OpenMP. Computers and Geotechnics, 2020, 118, 103346.	2.3	19
42	Cyclic Dryingâ€“Wetting Effect on Shear Behaviors of Red Sandstone Fracture. Rock Mechanics and Rock Engineering, 2021, 54, 2595-2613.	2.6	19
43	Method for Resolving Contact Indeterminacy in Three-Dimensional Discontinuous Deformation Analysis. International Journal of Geomechanics, 2018, 18, .	1.3	18
44	Permanent displacement models of earthquake-induced landslides considering near-fault pulse-like ground motions. Journal of Mountain Science, 2019, 16, 1244-1257.	0.8	18
45	Distributed-Spring Edge-to-Edge Contact Model for Two-Dimensional Discontinuous Deformation Analysis. Rock Mechanics and Rock Engineering, 2020, 53, 365-382.	2.6	18
46	Investigation of permanent displacements of near-fault seismic slopes by a general sliding block model. Landslides, 2022, 19, 187-197.	2.7	17
47	A new approach of combining aerial photography with satellite imagery for landslide detection. Natural Hazards, 2013, 66, 649-669.	1.6	16
48	A possible mechanism of earthquake-induced landslides focusing on pulse-like ground motions. Landslides, 2021, 18, 1641-1657.	2.7	16
49	GIS-based numerical modelling of debris flow motion across three-dimensional terrain. Journal of Mountain Science, 2013, 10, 522-531.	0.8	15
50	Extension and application of Discontinuous Deformation Analysis with a damped contact spring model. International Journal of Rock Mechanics and Minings Sciences, 2019, 123, 104123.	2.6	15
51	OpenMP-Based Parallel Two-Dimensional Discontinuous Deformation Analysis for Large-Scale Simulation. International Journal of Geomechanics, 2020, 20, .	1.3	15
52	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
53	Hazard assessment of earthquake-induced landslides by using permanent displacement model considering near-fault pulse-like ground motions. Bulletin of Engineering Geology and the Environment, 2021, 80, 8503-8518.	1.6	14
54	Multi-spring Edge-to-Edge Contact Model for Discontinuous Deformation Analysis and Its Application to the Tensile Failure Behavior of Rock Joints. Rock Mechanics and Rock Engineering, 2020, 53, 1243-1257.	2.6	13

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55	Influence of non-dimensional strength parameters on the seismic stability of cracked slopes. Journal of Mountain Science, 2019, 16, 153-167.	0.8	12
56	Dynamic modelling of soil-rock-mixture slopes using the coupled DDA-SPH method. Engineering Geology, 2022, 307, 106772.	2.9	12
57	Distinct Element Modelling of a Landslide Triggered by the 5.12 Wenchuan Earthquake: A Case Study. Geotechnical and Geological Engineering, 2018, 36, 2533-2551.	0.8	11
58	Verification and application of 2-D DDA-SPH method in solving fluidâ€“structure interaction problems. Journal of Fluids and Structures, 2021, 102, 103252.	1.5	11
59	Development of coupled DDA-SPH method for dynamic modelling of interaction problems between rock structure and soil. International Journal of Rock Mechanics and Minings Sciences, 2021, 146, 104890.	2.6	11
60	A large-volume manufacturing of multi-crystalline silicon solar cells with 18.8% efficiency incorporating practical advanced technologies. RSC Advances, 2016, 6, 58046-58054.	1.7	10
61	Dynamic simulation of the water inrush process in tunnel construction using a three-dimensional coupled discontinuous deformation analysis and smoothed particle hydrodynamics method. Tunnelling and Underground Space Technology, 2022, 127, 104612.	3.0	10
62	GIS-based numerical simulation of Amamioshima debris flow in Japan. Frontiers of Structural and Civil Engineering, 2013, 7, 206-214.	1.2	9
63	Earthquake-Induced Landslides. Springer Natural Hazards, 2018, , .	0.1	9
64	The relationship between contact-based and void-based fabrics of granular media. Computers and Geotechnics, 2020, 125, 103677.	2.3	8
65	A new discontinuous model for three dimensional analysis of fluid-solid interaction behavior. , 2014, , 503-508.		7
66	An Improved Discontinuous Deformation Analysis to Solve Numerical Creep Problem in Shear Direction. Rock Mechanics and Rock Engineering, 2022, 55, 3107-3127.	2.6	7
67	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.	1.6	7
68	Earthquake Induced a Chain Disasters. , 2012, , .		6
69	Barton-Bandis criterion-based system reliability analysis of rock slopes. Journal of Central South University, 2020, 27, 2123-2133.	1.2	6
70	Exploring inelastic collisions using modified three-dimensional discontinuous deformation analysis incorporating a damped contact model. Computers and Geotechnics, 2020, 121, 103456.	2.3	6
71	Effect of Excitation-Applied Manners on Permanent Displacements of Planar Slopes Using Dynamic Sliding Blocks Analysis. International Journal of Geomechanics, 2022, 22, .	1.3	6
72	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, .	1.3	6

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73	Extension of 3-D coupled DDA-SPH method for dynamic analysis of soil-structure interaction problems. Applied Mathematical Modelling, 2022, 111, 436-453.	2.2	5
74	Comparison of seismic stability for slopes with tensile strength cut-off and cracks. Journal of Mountain Science, 2021, 18, 3336-3347.	0.8	4
75	Review of rock stability analysis using discontinuous deformation analysis (DDA). , 2013, , 491-500.		3
76	Stability and Run-out Analysis of Earthquake-induced Landslides. , 0, , .		3
77	Comparison of Groundâ€Motion Prediction Equations Developed for the Horizontal Component of Strongâ€Motion Records from Japan. Bulletin of the Seismological Society of America, 2017, 107, 2821-2835.	1.1	3
78	Susceptibility assessment of soil erosion in overlaying diluvial fan of shallow underground pipelines. Bulletin of Engineering Geology and the Environment, 2021, 80, 2573-2585.	1.6	3
79	Empirical Correlations between the Spectral Input Energy and Spectral Acceleration. Journal of Earthquake Engineering, 2023, 27, 1514-1533.	1.4	3
80	Stability Analysis of Breakwater Under Seepage Flow Using DDA. , 2013, , .		2
81	Reply to the discussion by Utili and Abd on â€œSeismic displacement along a log-spiral failure surface with crack using rock Hoekâ€“Brown failure criterionâ€• Soil Dynamics and Earthquake Engineering, 2018, 108, 201-202.	1.9	2
82	Review of Studies on Earthquake-Induced Landslides. Springer Natural Hazards, 2018, , 11-39.	0.1	2
83	Post-peak roughness degradation model based on Barton-Bandis criterion for rock joint. IOP Conference Series: Earth and Environmental Science, 2019, 304, 052057.	0.2	1
84	Reply to the discussion by Ukritchon and Keawsawasvong on â€œSeismic displacement along a log-spiral failure surface with crack using rock Hoekâ€“Brown failure criterionâ€• Soil Dynamics and Earthquake Engineering, 2018, 115, 951-952.	1.9	0
85	A New Movement Mechanism of Earthquake-Induced Landslides by Considering the Trampoline Effect of Vertical Seismic Loading. , 2015, , 753-757.		0
86	Extension of Discontinuous Deformation Analysis and Application in Run-Out Analysis of Earthquake-Induced Landslides. Springer Natural Hazards, 2018, , 87-124.	0.1	0
87	The effect of rupture propagation on predominant direction of pulse-like ground motions and landslides. IOP Conference Series: Earth and Environmental Science, 2021, 861, 052023.	0.2	0
88	Study on dynamic response of slope under near-fault pulse-like ground motion. IOP Conference Series: Earth and Environmental Science, 2021, 861, 052024.	0.2	0