

# Yingbin Zhang

## List of Publications by Year in descending order

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88  
papers

2,494  
citations

172386

29  
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223716

46  
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91  
all docs

91  
docs citations

91  
times ranked

1501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Empirical Correlations between the Spectral Input Energy and Spectral Acceleration. <i>Journal of Earthquake Engineering</i> , 2023, 27, 1514-1533.	1.4	3
2	Investigation of permanent displacements of near-fault seismic slopes by a general sliding block model. <i>Landslides</i> , 2022, 19, 187-197.	2.7	17
3	An Improved Discontinuous Deformation Analysis to Solve Numerical Creep Problem in Shear Direction. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3107-3127.	2.6	7
4	Effect of Excitation-Applied Manners on Permanent Displacements of Planar Slopes Using Dynamic Sliding Blocks Analysis. <i>International Journal of Geomechanics</i> , 2022, 22, .	1.3	6
5	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. <i>International Journal of Geomechanics</i> , 2022, 22, .	1.3	6
6	Limit state analysis of stepped sliding of jointed rock slope based on tensile-shear composite failure mode of rock bridges. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	1.6	7
7	Dynamic simulation of the water inrush process in tunnel construction using a three-dimensional coupled discontinuous deformation analysis and smoothed particle hydrodynamics method. <i>Tunnelling and Underground Space Technology</i> , 2022, 127, 104612.	3.0	10
8	Dynamic modelling of soil-rock-mixture slopes using the coupled DDA-SPH method. <i>Engineering Geology</i> , 2022, 307, 106772.	2.9	12
9	Extension of 3-D coupled DDA-SPH method for dynamic analysis of soil-structure interaction problems. <i>Applied Mathematical Modelling</i> , 2022, 111, 436-453.	2.2	5
10	Susceptibility assessment of soil erosion in overlaying diluvial fan of shallow underground pipelines. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 2573-2585.	1.6	3
11	Back-analysis of Donghekou landslide using improved DDA considering joint roughness degradation. <i>Landslides</i> , 2021, 18, 1925-1935.	2.7	25
12	Cyclic Drying-Wetting Effect on Shear Behaviors of Red Sandstone Fracture. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 2595-2613.	2.6	19
13	Verification and application of 2-D DDA-SPH method in solving fluid-structure interaction problems. <i>Journal of Fluids and Structures</i> , 2021, 102, 103252.	1.5	11
14	Development of coupled DDA-SPH method for dynamic modelling of interaction problems between rock structure and soil. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 146, 104890.	2.6	11
15	A possible mechanism of earthquake-induced landslides focusing on pulse-like ground motions. <i>Landslides</i> , 2021, 18, 1641-1657.	2.7	16
16	Hazard assessment of earthquake-induced landslides by using permanent displacement model considering near-fault pulse-like ground motions. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 8503-8518.	1.6	14
17	The effect of rupture propagation on predominant direction of pulse-like ground motions and landslides. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 861, 052023.	0.2	0
18	Study on dynamic response of slope under near-fault pulse-like ground motion. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 861, 052024.	0.2	0

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19	Comparison of seismic stability for slopes with tensile strength cut-off and cracks. <i>Journal of Mountain Science</i> , 2021, 18, 3336-3347.	0.8	4
20	Multi-spring Edge-to-Edge Contact Model for Discontinuous Deformation Analysis and Its Application to the Tensile Failure Behavior of Rock Joints. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 1243-1257.	2.6	13
21	Development of a Coupled DDA-SPH Method and its Application to Dynamic Simulation of Landslides Involving Solid-Fluid Interaction. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 113-131.	2.6	42
22	CPU-accelerated explicit discontinuous deformation analysis and its application to landslide analysis. <i>Applied Mathematical Modelling</i> , 2020, 77, 216-234.	2.2	27
23	Distributed-Spring Edge-to-Edge Contact Model for Two-Dimensional Discontinuous Deformation Analysis. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 365-382.	2.6	18
24	A full-stage parallel architecture of three-dimensional discontinuous deformation analysis using OpenMP. <i>Computers and Geotechnics</i> , 2020, 118, 103346.	2.3	19
25	3D shape quantification and random packing simulation of rock aggregates using photogrammetry-based reconstruction and discrete element method. <i>Construction and Building Materials</i> , 2020, 262, 119986.	3.2	39
26	Barton-Bandis criterion-based system reliability analysis of rock slopes. <i>Journal of Central South University</i> , 2020, 27, 2123-2133.	1.2	6
27	OpenMP-Based Parallel Two-Dimensional Discontinuous Deformation Analysis for Large-Scale Simulation. <i>International Journal of Geomechanics</i> , 2020, 20, .	1.3	15
28	Exploring inelastic collisions using modified three-dimensional discontinuous deformation analysis incorporating a damped contact model. <i>Computers and Geotechnics</i> , 2020, 121, 103456.	2.3	6
29	The relationship between contact-based and void-based fabrics of granular media. <i>Computers and Geotechnics</i> , 2020, 125, 103677.	2.3	8
30	Temperature-dependent peak shear-strength criterion for granite fractures. <i>Engineering Geology</i> , 2020, 269, 105552.	2.9	25
31	Post-peak roughness degradation model based on Barton-Bandis criterion for rock joint. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 304, 052057.	0.2	1
32	Extension and application of Discontinuous Deformation Analysis with a damped contact spring model. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 123, 104123.	2.6	15
33	Influence of non-dimensional strength parameters on the seismic stability of cracked slopes. <i>Journal of Mountain Science</i> , 2019, 16, 153-167.	0.8	12
34	Evaluation of impact force of rock landslides acting on structures using discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2019, 114, 103137.	2.3	39
35	Permanent displacement models of earthquake-induced landslides considering near-fault pulse-like ground motions. <i>Journal of Mountain Science</i> , 2019, 16, 1244-1257.	0.8	18
36	Stability assessment of three-dimensional slopes with cracks. <i>Engineering Geology</i> , 2019, 252, 136-144.	2.9	40

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37	Improvement of joint definition and determination in three-dimensional discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2019, 110, 148-160.	2.3	29
38	Parallel computing of three-dimensional discontinuous deformation analysis based on OpenMP. <i>Computers and Geotechnics</i> , 2019, 106, 304-313.	2.3	49
39	Distinct Element Modelling of a Landslide Triggered by the 5.12 Wenchuan Earthquake: A Case Study. <i>Geotechnical and Geological Engineering</i> , 2018, 36, 2533-2551.	0.8	11
40	A new DDA model for kinematic analyses of rockslides on complex 3-D terrain. <i>Bulletin of Engineering Geology and the Environment</i> , 2018, 77, 555-571.	1.6	24
41	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". <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 115, 951-952.	1.9	0
42	Applying modified discontinuous deformation analysis to assess the dynamic response of sites containing discontinuities. <i>Engineering Geology</i> , 2018, 246, 349-360.	2.9	61
43	Method for Resolving Contact Indeterminacy in Three-Dimensional Discontinuous Deformation Analysis. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	18
44	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". <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 108, 201-202.	1.9	2
45	Earthquake-Induced Landslides. <i>Springer Natural Hazards</i> , 2018, , .	0.1	9
46	Review of Studies on Earthquake-Induced Landslides. <i>Springer Natural Hazards</i> , 2018, , 11-39.	0.1	2
47	Extension of Discontinuous Deformation Analysis and Application in Run-Out Analysis of Earthquake-Induced Landslides. <i>Springer Natural Hazards</i> , 2018, , 87-124.	0.1	0
48	Dynamic simulation of landslide dam behavior considering kinematic characteristics using a coupled DDA-SPH method. <i>Engineering Analysis With Boundary Elements</i> , 2017, 80, 172-183.	2.0	60
49	Seismic displacement along a log-spiral failure surface with crack using rock Hoek-Brown failure criterion. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 99, 74-85.	1.9	35
50	Effect of the vertical earthquake component on permanent seismic displacement of soil slopes based on the nonlinear Mohr-Coulomb failure criterion. <i>Soils and Foundations</i> , 2017, 57, 237-251.	1.3	45
51	A new approach for modeling landslide movement over 3D topography using 3D discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2017, 81, 87-97.	2.3	34
52	Comparison of Ground-Motion Prediction Equations Developed for the Horizontal Component of Strong-Motion Records from Japan. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 2821-2835.	1.1	3
53	System reliability analysis of plane slide rock slope using Barton-Bandis failure criterion. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 88, 1-11.	2.6	30
54	Stability analysis of seismic slopes with cracks. <i>Computers and Geotechnics</i> , 2016, 77, 77-90.	2.3	53

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55	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
56	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
57	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
58	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
59	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
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	Co-electrodeposited Cu <sub>2</sub> ZnSnS <sub>4</sub> 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
62	7.1% efficient co-electroplated Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film solar cells with sputtered CdS buffer layers. Green Chemistry, 2016, 18, 550-557.	4.6	104
63	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
64	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
65	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
66	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
67	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
68	Long-term reliability of silicon wafer-based traditional backsheet modules and double glass modules. RSC Advances, 2015, 5, 65768-65774.	1.7	27
69	DDA validation of the mobility of earthquake-induced landslides. Engineering Geology, 2015, 194, 38-51.	2.9	126
70	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
71	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
72	A New Movement Mechanism of Earthquake-Induced Landslides by Considering the Trampoline Effect of Vertical Seismic Loading. , 2015, , 753-757.		0

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73	Extension of discontinuous deformation analysis and application in cohesive-frictional slope analysis. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 70, 533-545.	2.6	80
74	The slope modeling method with GIS support for rockfall analysis using 3D DDA. <i>Geomechanics and Geoengineering</i> , 2014, 9, 142-152.	0.9	26
75	A new approach for analyzing the velocity distribution of debris flows at typical cross-sections. <i>Natural Hazards</i> , 2014, 74, 2053-2070.	1.6	25
76	A new discontinuous model for three dimensional analysis of fluid-solid interaction behavior. , 2014, , 503-508.		7
77	A new approach of combining aerial photography with satellite imagery for landslide detection. <i>Natural Hazards</i> , 2013, 66, 649-669.	1.6	16
78	GIS-based numerical simulation of Amamioshima debris flow in Japan. <i>Frontiers of Structural and Civil Engineering</i> , 2013, 7, 206-214.	1.2	9
79	GIS-based numerical modelling of debris flow motion across three-dimensional terrain. <i>Journal of Mountain Science</i> , 2013, 10, 522-531.	0.8	15
80	Effects of near-fault seismic loadings on run-out of large-scale landslide: A case study. <i>Engineering Geology</i> , 2013, 166, 216-236.	2.9	146
81	Excess pore pressure dissipation and solidification after liquefaction of saturated sand deposits. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 49, 157-164.	1.9	33
82	Effects of geometries on three-dimensional slope stability. <i>Canadian Geotechnical Journal</i> , 2013, 50, 233-249.	1.4	91
83	An analytical method to evaluate the effect of a turning corner on 3D slope stability. <i>Computers and Geotechnics</i> , 2013, 53, 40-45.	2.3	19
84	Numerical Simulation in Rockfall Analysis: A Close Comparison of 2-D and 3-D DDA. <i>Rock Mechanics and Rock Engineering</i> , 2013, 46, 527-541.	2.6	103
85	Stability Analysis of Breakwater Under Seepage Flow Using DDA. , 2013, , .		2
86	Review of rock stability analysis using discontinuous deformation analysis (DDA). , 2013, , 491-500.		3
87	Earthquake Induced a Chain Disasters. , 2012, , .		6
88	Stability and Run-out Analysis of Earthquake-induced Landslides. , 0, , .		3