Pengcheng Yu

List of Publications by Year
in descending order

38 papers	1,462 citations	331538 21 h-index	330025 37 g-index
39 all docs	39 docs citations	39 times ranked	733 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	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
4	Effects of geometries on three-dimensional slope stability. Canadian Geotechnical Journal, 2013, 50, 233-249.	1.4	91
5	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
6	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
7	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
8	Applying modified discontinuous deformation analysis to assess the dynamic response of sites containing discontinuities. Engineering Geology, 2018, 246, 349-360.	2.9	61
9	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
10	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
11	Stability analysis of seismic slopes with cracks. Computers and Geotechnics, 2016, 77, 77-90.	2.3	53
12	Parallel computing of three-dimensional discontinuous deformation analysis based on OpenMP. Computers and Geotechnics, 2019, 106, 304-313.	2.3	49
13	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
14	Evaluation of impact force of rock landslides acting on structures using discontinuous deformation analysis. Computers and Geotechnics, 2019, 114, 103137.	2.3	39
15	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
16	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
17	Improvement of joint definition and determination in three-dimensional discontinuous deformation analysis. Computers and Geotechnics, 2019, 110, 148-160.	2.3	29
18	CPU-accelerated explicit discontinuous deformation analysis and its application to landslide analysis. Applied Mathematical Modelling, 2020, 77, 216-234.	2.2	27

#	Article	IF	Citations
19	The slope modeling method with GIS support for rockfall analysis using 3D DDA. Geomechanics and Geoengineering, 2014, 9, 142-152.	0.9	26
20	Back-analysis of Donghekou landslide using improved DDA considering joint roughness degradation. Landslides, 2021, 18, 1925-1935.	2.7	25
21	A method for microscopic unsaturated soil-water interaction analysis based on DDA. Computers and Geotechnics, 2019, 108, 143-151.	2.3	24
22	A full-stage parallel architecture of three-dimensional discontinuous deformation analysis using OpenMP. Computers and Geotechnics, 2020, 118, 103346.	2.3	19
23	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
24	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
25	Improvement of DDA with a New Unified Tensile Fracture Model for Rock Fragmentation and its Application on Dynamic Seismic Landslides. Rock Mechanics and Rock Engineering, 2021, 54, 1055-1075.	2.6	17
26	Investigation of permanent displacements of near-fault seismic slopes by a general sliding block model. Landslides, 2022, 19, 187-197.	2.7	17
27	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
28	OpenMP-Based Parallel Two-Dimensional Discontinuous Deformation Analysis for Large-Scale Simulation. International Journal of Geomechanics, 2020, 20, .	1.3	15
29	Implementation of a J-integral based Maximum Circumferential Tensile Stress theory in DDA for simulating crack propagation. Engineering Fracture Mechanics, 2021, 246, 107621.	2.0	15
30	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
31	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
32	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
33	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
34	Earthquake-Induced Landslides. Springer Natural Hazards, 2018, , .	0.1	9
35	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
36	Exploring inelastic collisions using modified three-dimensional discontinuous deformation analysis incorporating a damped contact model. Computers and Geotechnics, 2020, 121, 103456.	2.3	6

#	Article	IF	Citations
37	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
38	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