

Hong Zhang

List of Publications by Year in descending order

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46
papers

1,123
citations

394421
19
h-index

395702
33
g-index

46
all docs

46
docs citations

46
times ranked

480
citing authors

#	ARTICLE	IF	CITATIONS
1	DDA validation of the mobility of earthquake-induced landslides. <i>Engineering Geology</i> , 2015, 194, 38-51.	6.3	126
2	3D numerical simulation of debris-flow motion using SPH method incorporating non-Newtonian fluid behavior. <i>Natural Hazards</i> , 2016, 81, 1981-1998.	3.4	71
3	Analysis of landslide-generated impulsive waves using a coupled DDA-SPH method. <i>Engineering Analysis With Boundary Elements</i> , 2016, 64, 267-277.	3.7	67
4	Applying modified discontinuous deformation analysis to assess the dynamic response of sites containing discontinuities. <i>Engineering Geology</i> , 2018, 246, 349-360.	6.3	61
5	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.	3.7	60
6	Detection of contacts between three-dimensional polyhedral blocks for discontinuous deformation analysis. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 78, 57-73.	5.8	57
7	Parallel computing of three-dimensional discontinuous deformation analysis based on OpenMP. <i>Computers and Geotechnics</i> , 2019, 106, 304-313.	4.7	49
8	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.	5.4	42
9	Extensions of edge-to-edge contact model in three-dimensional discontinuous deformation analysis for friction analysis. <i>Computers and Geotechnics</i> , 2016, 71, 261-275.	4.7	41
10	Evaluation of impact force of rock landslides acting on structures using discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2019, 114, 103137.	4.7	39
11	A new approach for modeling landslide movement over 3D topography using 3D discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2017, 81, 87-97.	4.7	34
12	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.	4.7	33
13	A new algorithm to identify contact types between arbitrarily shaped polyhedral blocks for three-dimensional discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2016, 80, 1-15.	4.7	29
14	Improvement of joint definition and determination in three-dimensional discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2019, 110, 148-160.	4.7	29
15	CPU-accelerated explicit discontinuous deformation analysis and its application to landslide analysis. <i>Applied Mathematical Modelling</i> , 2020, 77, 216-234.	4.2	27
16	Exploring the velocity distribution of debris flows: An iteration algorithm based approach for complex cross-sections. <i>Geomorphology</i> , 2015, 241, 72-82.	2.6	26
17	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.	3.5	24
18	Extension of three-dimensional discontinuous deformation analysis to frictional-cohesive materials. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 86, 65-79.	5.8	22

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19	Improvements in DDA program for rockslides with local in-circle contact method and modified open-close iteration. <i>Engineering Geology</i> , 2020, 265, 105433.	6.3	22
20	A full-stage parallel architecture of three-dimensional discontinuous deformation analysis using OpenMP. <i>Computers and Geotechnics</i> , 2020, 118, 103346.	4.7	19
21	Numerical simulation for run-out extent of debris flows using an improved cellular automaton model. <i>Bulletin of Engineering Geology and the Environment</i> , 2017, 76, 961-974.	3.5	18
22	Method for Resolving Contact Indeterminacy in Three-Dimensional Discontinuous Deformation Analysis. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	18
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.	5.4	18
24	A 3-D DDA damage analysis of brick masonry buildings under the impact of boulders in mountainous areas. <i>Journal of Mountain Science</i> , 2018, 15, 657-671.	2.0	17
25	The last entrance plane method for contact indeterminacy between convex polyhedral blocks. <i>Computers and Geotechnics</i> , 2020, 117, 103283.	4.7	17
26	Elementary analysis on the bed-sediment entrainment by debris flow and its application using the TopFlowDF model. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 764-785.	4.3	16
27	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.	5.8	15
28	OpenMP-Based Parallel Two-Dimensional Discontinuous Deformation Analysis for Large-Scale Simulation. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	15
29	Simulating the damage extent of unreinforced brick masonry buildings under boulder impact using three-dimensional discontinuous deformation analysis (3-D DDA). <i>Engineering Failure Analysis</i> , 2018, 93, 122-143.	4.0	12
30	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.	5.8	12
31	Research on Fault Cutting Algorithm of the Three-Dimensional Numerical Manifold Method. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	11
32	Three-dimensional discontinuous deformation analysis with explicit contact formulation and block-wise multicore CPU acceleration. <i>Computers and Geotechnics</i> , 2021, 139, 104410.	4.7	11
33	Hydrodynamic and topography based cellular automaton model for simulating debris flow run-out extent and entrainment behavior. <i>Water Research</i> , 2021, 193, 116872.	11.3	9
34	Improved friction force calculation with an augmented open-close iteration formulation in discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2021, 130, 103932.	4.7	8
35	An Improved Discontinuous Deformation Analysis to Solve Numerical Creep Problem in Shear Direction. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3107-3127.	5.4	7
36	Angle-Based Contact Detection in Discontinuous Deformation Analysis. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5545-5569.	5.4	6

#	ARTICLE	IF	CITATIONS
37	Exploring inelastic collisions using modified three-dimensional discontinuous deformation analysis incorporating a damped contact model. Computers and Geotechnics, 2020, 121, 103456.	4.7	6
38	Modelling of stem-scale turbulence and sediment suspension in vegetated flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 355-377.	1.7	6
39	Extension of 3-D coupled DDA-SPH method for dynamic analysis of soil-structure interaction problems. Applied Mathematical Modelling, 2022, 111, 436-453.	4.2	5
40	Investigating the Role of Earthquakes on the Stability of Dangerous Rock Masses and Rockfall Dynamics. Frontiers in Earth Science, 2022, 9, .	1.8	4
41	Three-dimensional deformable distinct element method with polyhedral elements and cloud GPGPU acceleration. Computers and Geotechnics, 2022, 146, 104732.	4.7	4
42	Three-Dimensional Numerical Manifold Method Based on Viscoelastic Constitutive Relation. International Journal of Geomechanics, 2020, 20, 04020161.	2.7	3
43	Three-dimensional discontinuous deformation analysis derived from the virtual work principle with a simplex integral on the boundary. Computers and Geotechnics, 2022, 146, 104710.	4.7	3
44	A Stochastic Rockfall Model Related to Random Ground Roughness Based on Three-Dimensional Discontinuous Deformation Analysis. Frontiers in Earth Science, 2021, 9, .	1.8	3
45	Nonlinear Simulation and Vulnerability Analysis of Masonry Structures Impacted by Flash Floods. Shock and Vibration, 2021, 2021, 1-20.	0.6	1
46	Efficient Investigation of Rock Crack Propagation and Fracture Behaviors during Impact Fragmentation in Rockfalls Using Parallel DDA. Advances in Civil Engineering, 2021, 2021, 1-17.	0.7	0