

Wei Zhou

List of Publications by Year in descending order

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56
papers

2,023
citations

236612

25
h-index

243296

44
g-index

57
all docs

57
docs citations

57
times ranked

1415
citing authors

#	ARTICLE	IF	CITATIONS
1	A multiple response-surface method for slope reliability analysis considering spatial variability of soil properties. <i>Engineering Geology</i> , 2015, 187, 60-72.	2.9	340
2	Settlement analysis of the Shuibuya concrete-face rockfill dam. <i>Computers and Geotechnics</i> , 2011, 38, 269-280.	2.3	124
3	Modeling the fragmentation of rock grains using computed tomography and combined FDEM. <i>Powder Technology</i> , 2017, 308, 388-397.	2.1	99
4	Modeling the particle breakage of rockfill materials with the cohesive crack model. <i>Computers and Geotechnics</i> , 2014, 61, 132-143.	2.3	89
5	Bivariate distribution of shear strength parameters using copulas and its impact on geotechnical system reliability. <i>Computers and Geotechnics</i> , 2015, 68, 184-195.	2.3	88
6	Numerical and experimental verification of a damping model used in DEM. <i>Granular Matter</i> , 2016, 18, 1.	1.1	77
7	Macro-micro responses of crushable granular materials in simulated true triaxial tests. <i>Granular Matter</i> , 2015, 17, 497-509.	1.1	75
8	Precise simulation analysis of the thermal field in mass concrete with a pipe water cooling system. <i>Applied Thermal Engineering</i> , 2015, 78, 449-459.	3.0	68
9	Three-dimensional DEM investigation of critical state and dilatancy behaviors of granular materials. <i>Acta Geotechnica</i> , 2017, 12, 527-540.	2.9	66
10	Combined FEM/DEM Modeling of Triaxial Compression Tests for Rockfills with Polyhedral Particles. <i>International Journal of Geomechanics</i> , 2014, 14, .	1.3	58
11	Reliability analysis of strip footing considering spatially variable undrained shear strength that linearly increases with depth. <i>Soils and Foundations</i> , 2015, 55, 866-880.	1.3	56
12	A hybrid approach for modeling of breakable granular materials using combined finite-discrete element method. <i>Granular Matter</i> , 2016, 18, 1.	1.1	56
13	Mesoscopic simulation of the dynamic tensile behaviour of concrete based on a rate-dependent cohesive model. <i>International Journal of Impact Engineering</i> , 2016, 95, 165-175.	2.4	55
14	Damage demand assessment of mainshock-damaged concrete gravity dams subjected to aftershocks. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 98, 141-154.	1.9	50
15	Microscopic modeling of the creep behavior of rockfills with a delayed particle breakage model. <i>Acta Geotechnica</i> , 2015, 10, 481-496.	2.9	47
16	DEM analysis of the size effects on the behavior of crushable granular materials. <i>Granular Matter</i> , 2016, 18, 1.	1.1	46
17	Influence of Particle Shape on Behavior of Rockfill Using a Three-Dimensional Deformable DEM. <i>Journal of Engineering Mechanics - ASCE</i> , 2013, 139, 1868-1873.	1.6	41
18	Effects of particle size ratio on the macro- and microscopic behaviors of binary mixtures at the maximum packing efficiency state. <i>Granular Matter</i> , 2016, 18, 1.	1.1	38

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19	A double-differenced cycle slip detection and repair method for GNSS CORS network. <i>GPS Solutions</i> , 2016, 20, 439-450.	2.2	38
20	DEM modeling of shear bands in crushable and irregularly shaped granular materials. <i>Granular Matter</i> , 2017, 19, 1.	1.1	37
21	Remote Sensing of Deformation of a High Concrete-Faced Rockfill Dam Using InSAR: A Study of the Shuibuya Dam, China. <i>Remote Sensing</i> , 2016, 8, 255.	1.8	35
22	Mesoscopic simulation of thermo-mechanical behaviors in concrete under frost action. <i>Construction and Building Materials</i> , 2017, 157, 117-131.	3.2	33
23	Efficient reliability updating of slope stability by reweighting failure samples generated by Monte Carlo simulation. <i>Computers and Geotechnics</i> , 2015, 69, 588-600.	2.3	30
24	Modeling the Piped Water Cooling of a Concrete Dam Using the Heat-Fluid Coupling Method. <i>Journal of Engineering Mechanics - ASCE</i> , 2013, 139, 1278-1289.	1.6	28
25	Integrated duration effects on seismic performance of concrete gravity dams using linear and nonlinear evaluation methods. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 79, 223-236.	1.9	27
26	Effect of Particle Shape and Fine Content on the Behavior of Binary Mixture. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	1.6	27
27	Combined finite-discrete element method modeling of rockslides. <i>Engineering Computations</i> , 2016, 33, 1530-1559.	0.7	26
28	A modified dynamic shear modulus model for rockfill materials under a wide range of shear strain amplitudes. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 92, 229-238.	1.9	24
29	A combined continuous-discontinuous approach for failure process of quasi-brittle materials. <i>Science China Technological Sciences</i> , 2014, 57, 550-559.	2.0	21
30	InSAR Observation and Numerical Modeling of the Earth-Dam Displacement of Shuibuya Dam (China). <i>Remote Sensing</i> , 2016, 8, 877.	1.8	21
31	Discrete modeling of rockfill materials considering the irregular shaped particles and their crushability. <i>Engineering Computations</i> , 2015, 32, 1104-1120.	0.7	19
32	Assessment of the crest cracks of the Pubugou rockfill dam based on parameters back analysis. <i>Geomechanics and Engineering</i> , 2016, 11, 571-585.	0.9	19
33	Effect of base roughness on size segregation in dry granular flows. <i>Granular Matter</i> , 2016, 18, 1.	1.1	18
34	Effects of Wetting and Drying Cycles on the Breakage Characteristics of Slate Rock Grains. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 6323-6337.	2.6	18
35	The Influence of Initial Cracks on the Crack Propagation Process of Concrete Gravity Dam-Reservoir-Foundation Systems. <i>Journal of Earthquake Engineering</i> , 2015, 19, 991-1011.	1.4	14
36	Mechanical response of rockfills in a simulated true triaxial test: A combined FDEM study. <i>Geomechanics and Engineering</i> , 2014, 7, 317-333.	0.9	14

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37	Machine learning bridges microslips and slip avalanches of sheared granular gouges. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117366.	1.8	13
38	A two-step homogenization-based permeability model for deformable fractured rocks with consideration of coupled damage and friction effects. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 89, 212-226.	2.6	11
39	Study of the effects of anisotropic consolidation on granular materials under complex stress paths using the DEM. <i>Granular Matter</i> , 2017, 19, 1.	1.1	11
40	Damping and Particle Mass in DEM Simulations under Gravity. <i>Journal of Engineering Mechanics - ASCE</i> , 2015, 141, .	1.6	10
41	Coring damage mechanism of the Yan-tang group marble: combined effect of stress redistribution and rock structure. <i>Bulletin of Engineering Geology and the Environment</i> , 2016, 75, 1701-1716.	1.6	9
42	Displacement Back Analysis of Reservoir Landslide Based on Multi-Source Monitoring Data: A Case Study of the Cheyiping Landslide in the Lancang River Basin, China. <i>Remote Sensing</i> , 2022, 14, 2683.	1.8	8
43	A macro-“meso chemo-physical analysis of early-age concrete based on a fixed hydration model. <i>Magazine of Concrete Research</i> , 2016, 68, 981-994.	0.9	7
44	Influence of Particle Shape on Mechanical Behavior of Granular Materials. <i>Springer Proceedings in Physics</i> , 2017, , 245-252.	0.1	7
45	DEM simulations of bi-disperse ellipsoids of different particle sizes. <i>Comptes Rendus - Mecanique</i> , 2014, 342, 141-150.	2.1	6
46	Contrastive Numerical Investigations on Thermo-Structural Behaviors in Mass Concrete with Various Cements. <i>Materials</i> , 2016, 9, 378.	1.3	5
47	PFC2D simulation of thermally induced cracks in concrete specimens. , 2013, , .		4
48	Numerical simulation of the reinforcement effect of rock bolts in granular mixtures. <i>European Journal of Environmental and Civil Engineering</i> , 2019, 23, 807-830.	1.0	3
49	Temperature Control Measures and Feedback Analysis in Rapid Construction of Guandi RCC Dam. <i>Advanced Materials Research</i> , 0, 594-597, 1979-1982.	0.3	2
50	Influence of Glass Powder on Hydration Kinetics of Composite Cementitious Materials. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-7.	1.0	2
51	Influence of Base Roughness on Kinematic and Mechanical Characteristics of Debris Flows. <i>Springer Proceedings in Physics</i> , 2017, , 1047-1054.	0.1	2
52	Elastic geopolymer based on nanotechnology: Synthesis, characterization, properties, and applications. <i>Ceramics International</i> , 2022, 48, 5965-5971.	2.3	1
53	Study on Concrete Temperature Crack Based on Mesomechanics. <i>Applied Mechanics and Materials</i> , 0, 212-213, 895-898.	0.2	0
54	Application of Element-Free Galerkin Method for Axis-Symmetric Heat Transfer Problems. , 2013, , .		0

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55	Real-time temperature control for high arch dam based on decision support system. Transactions of Tianjin University, 2014, 20, 118-125.	3.3	0
56	Combined Finite-Discrete Element Method Modeling of Rock Failure Problems. Springer Proceedings in Physics, 2017, , 301-309.	0.1	0