

# Wei Zhou

## List of Publications by Year in descending order

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56  
papers

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citations

236612

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docs citations

57  
times ranked

1415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic geopolymer based on nanotechnology: Synthesis, characterization, properties, and applications. <i>Ceramics International</i> , 2022, 48, 5965-5971.	2.3	1
2	Machine learning bridges microslips and slip avalanches of sheared granular gouges. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117366.	1.8	13
3	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
4	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
5	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
6	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
7	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
8	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
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	DEM modeling of shear bands in crushable and irregularly shaped granular materials. <i>Granular Matter</i> , 2017, 19, 1.	1.1	37
11	Modeling the fragmentation of rock grains using computed tomography and combined FDEM. <i>Powder Technology</i> , 2017, 308, 388-397.	2.1	99
12	Combined Finite-Discrete Element Method Modeling of Rock Failure Problems. <i>Springer Proceedings in Physics</i> , 2017, , 301-309.	0.1	0
13	Mesoscopic simulation of thermo-mechanical behaviors in concrete under frost action. <i>Construction and Building Materials</i> , 2017, 157, 117-131.	3.2	33
14	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
15	Influence of Base Roughness on Kinematic and Mechanical Characteristics of Debris Flows. <i>Springer Proceedings in Physics</i> , 2017, , 1047-1054.	0.1	2
16	Influence of Particle Shape on Mechanical Behavior of Granular Materials. <i>Springer Proceedings in Physics</i> , 2017, , 245-252.	0.1	7
17	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
18	Contrastive Numerical Investigations on Thermo-Structural Behaviors in Mass Concrete with Various Cements. <i>Materials</i> , 2016, 9, 378.	1.3	5

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19	InSAR Observation and Numerical Modeling of the Earth-Dam Displacement of Shuibuya Dam (China). Remote Sensing, 2016, 8, 877.	1.8	21
20	Mesoscopic simulation of the dynamic tensile behaviour of concrete based on a rate-dependent cohesive model. International Journal of Impact Engineering, 2016, 95, 165-175.	2.4	55
21	A two-step homogenization-based permeability model for deformable fractured rocks with consideration of coupled damage and friction effects. International Journal of Rock Mechanics and Minings Sciences, 2016, 89, 212-226.	2.6	11
22	Effects of particle size ratio on the macro- and microscopic behaviors of binary mixtures at the maximum packing efficiency state. Granular Matter, 2016, 18, 1.	1.1	38
23	DEM analysis of the size effects on the behavior of crushable granular materials. Granular Matter, 2016, 18, 1.	1.1	46
24	A macro-meso chemo-physical analysis of early-age concrete based on a fixed hydration model. Magazine of Concrete Research, 2016, 68, 981-994.	0.9	7
25	Effect of base roughness on size segregation in dry granular flows. Granular Matter, 2016, 18, 1.	1.1	18
26	Coring damage mechanism of the Yan-tang group marble: combined effect of stress redistribution and rock structure. Bulletin of Engineering Geology and the Environment, 2016, 75, 1701-1716.	1.6	9
27	Combined finite-discrete element method modeling of rockslides. Engineering Computations, 2016, 33, 1530-1559.	0.7	26
28	Numerical and experimental verification of a damping model used in DEM. Granular Matter, 2016, 18, 1.	1.1	77
29	A hybrid approach for modeling of breakable granular materials using combined finite-discrete element method. Granular Matter, 2016, 18, 1.	1.1	56
30	A double-differenced cycle slip detection and repair method for GNSS CORS network. GPS Solutions, 2016, 20, 439-450.	2.2	38
31	Assessment of the crest cracks of the Pubugou rockfill dam based on parameters back analysis. Geomechanics and Engineering, 2016, 11, 571-585.	0.9	19
32	Discrete modeling of rockfill materials considering the irregular shaped particles and their crushability. Engineering Computations, 2015, 32, 1104-1120.	0.7	19
33	Influence of Glass Powder on Hydration Kinetics of Composite Cementitious Materials. Advances in Materials Science and Engineering, 2015, 2015, 1-7.	1.0	2
34	Reliability analysis of strip footing considering spatially variable undrained shear strength that linearly increases with depth. Soils and Foundations, 2015, 55, 866-880.	1.3	56
35	A multiple response-surface method for slope reliability analysis considering spatial variability of soil properties. Engineering Geology, 2015, 187, 60-72.	2.9	340
36	Precise simulation analysis of the thermal field in mass concrete with a pipe water cooling system. Applied Thermal Engineering, 2015, 78, 449-459.	3.0	68

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37	Damping and Particle Mass in DEM Simulations under Gravity. Journal of Engineering Mechanics - ASCE, 2015, 141, .	1.6	10
38	Efficient reliability updating of slope stability by reweighting failure samples generated by Monte Carlo simulation. Computers and Geotechnics, 2015, 69, 588-600.	2.3	30
39	The Influence of Initial Cracks on the Crack Propagation Process of Concrete Gravity Dam-Reservoir-Foundation Systems. Journal of Earthquake Engineering, 2015, 19, 991-1011.	1.4	14
40	Bivariate distribution of shear strength parameters using copulas and its impact on geotechnical system reliability. Computers and Geotechnics, 2015, 68, 184-195.	2.3	88
41	Microscopic modeling of the creep behavior of rockfills with a delayed particle breakage model. Acta Geotechnica, 2015, 10, 481-496.	2.9	47
42	Macro-micro responses of crushable granular materials in simulated true triaxial tests. Granular Matter, 2015, 17, 497-509.	1.1	75
43	Integrated duration effects on seismic performance of concrete gravity dams using linear and nonlinear evaluation methods. Soil Dynamics and Earthquake Engineering, 2015, 79, 223-236.	1.9	27
44	Combined FEM/DEM Modeling of Triaxial Compression Tests for Rockfills with Polyhedral Particles. International Journal of Geomechanics, 2014, 14, .	1.3	58
45	A combined continuous-discontinuous approach for failure process of quasi-brittle materials. Science China Technological Sciences, 2014, 57, 550-559.	2.0	21
46	Real-time temperature control for high arch dam based on decision support system. Transactions of Tianjin University, 2014, 20, 118-125.	3.3	0
47	DEM simulations of bi-disperse ellipsoids of different particle sizes. Comptes Rendus - Mecanique, 2014, 342, 141-150.	2.1	6
48	Modeling the particle breakage of rockfill materials with the cohesive crack model. Computers and Geotechnics, 2014, 61, 132-143.	2.3	89
49	Mechanical response of rockfills in a simulated true triaxial test: A combined FDEM study. Geomechanics and Engineering, 2014, 7, 317-333.	0.9	14
50	Modeling the Piped Water Cooling of a Concrete Dam Using the Heat-Fluid Coupling Method. Journal of Engineering Mechanics - ASCE, 2013, 139, 1278-1289.	1.6	28
51	Application of Element-Free Galerkin Method for Axis-Symmetric Heat Transfer Problems. , 2013, , .		0
52	Influence of Particle Shape on Behavior of Rockfill Using a Three-Dimensional Deformable DEM. Journal of Engineering Mechanics - ASCE, 2013, 139, 1868-1873.	1.6	41
53	PFC2D simulation of thermally induced cracks in concrete specimens. , 2013, , .		4
54	Settlement analysis of the Shuibuya concrete-face rockfill dam. Computers and Geotechnics, 2011, 38, 269-280.	2.3	124

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55	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
56	Study on Concrete Temperature Crack Based on Mesomechanics. <i>Applied Mechanics and Materials</i> , 0, 212-213, 895-898.	0.2	0