Jun-Xing Zheng

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bio-inspired geotechnical engineering: principles, current work, opportunities and challenges. Geotechnique, 2022, 72, 687-705.	4.0	74
2	Laboratory-on-a-smartphone for estimating angularity of granular soils. Acta Geotechnica, 2022, 17, 2651-2674.	5.7	3
3	On compression behavior and particle breakage of carbonate silty sands. Engineering Geology, 2022, 297, 106492.	6.3	7
4	Particle shape characterizations for energetic materials by computational geometry and stereology method. SN Applied Sciences, 2022, 4, 1.	2.9	3
5	Microstructure Characterization of High Explosives by Wavelet Transform. Mathematical Problems in Engineering, 2022, 2022, 1-16.	1.1	0
6	Realistic soil particle generation based on limited morphological information by probability-based spherical harmonics. Computational Particle Mechanics, 2021, 8, 215-235.	3.0	20
7	Three-dimensional Wadell roundness for particle angularity characterization of granular soils. Acta Geotechnica, 2021, 16, 133-149.	5.7	51
8	Accelerated simulations of direct shear tests by physics engine. Computational Particle Mechanics, 2021, 8, 471-492.	3.0	4
9	Performance evaluation of geosynthetic reinforced flexible pavement: a review of full-scale field studies. International Journal of Pavement Research and Technology, 2021, 14, 30-42.	2.6	20
10	Evaluation of geogrid reinforcement of flexible pavement performance: A review of large-scale laboratory studies. Transportation Geotechnics, 2021, 27, 100471.	4.5	26
11	Finite element viscoelastic simulations of rutting behavior of hot mix and warm mix asphalt overlay on flexible pavements. International Journal of Pavement Research and Technology, 2021, 14, 708-719.	2.6	9
12	Modeling excess shear stress around tandem piers of the longitudinal bridge by computational fluid dynamics. Journal of Applied Water Engineering and Research, 2021, 9, 216-229.	1.8	2
13	Simulating shearing behavior of realistic granular soils using physics engine. Granular Matter, 2021, 23, 1.	2.2	4
14	Effectiveness of Geosynthetics in the Construction of Roadways: A Full-Scale Field Studies Review. , 2021, , .		5
15	In-plane asymmetric buckling of an FGM circular arch subjected to thermal and pressure fields. Engineering Structures, 2021, 239, 112268.	5.3	9
16	The critical state parameters of sands from their image-based intrinsic properties. Acta Geotechnica, 2021, 16, 4081-4092.	5.7	1
17	Physics engine based simulation of shear behavior of granular soils using hard and soft contact models. Journal of Computational Science, 2021, 56, 101504.	2.9	2
18	Computer Vision Technology for Characterizing Particle Size and Shape of Aggregate Materials: A Review. , 2021, , .		0

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19	Structural failure performance of the encased functionally graded porous cylinder consolidated by graphene platelet under uniform radial loading. Thin-Walled Structures, 2020, 146, 106454.	5.3	37
20	Morphology-based indices and recommended sampling sizes for using image-based methods to quantify degradations of compacted aggregate materials. Construction and Building Materials, 2020, 230, 116970.	7.2	25
21	Nonlinear stability of the encased functionally graded porous cylinders reinforced by graphene nanofillers subjected to pressure loading under thermal effect. Composite Structures, 2020, 233, 111584.	5.8	25
22	Thermal-elastic buckling of the arch-shaped structures with FGP aluminum reinforced by composite graphene platelets. Thin-Walled Structures, 2020, 157, 107142.	5.3	25
23	Long-Term Settlement of High Concrete-Face Rockfill Dam by Field Monitoring and Numerical Simulation. Advances in Civil Engineering, 2020, 2020, 1-17.	0.7	3
24	Field and simulated rutting behavior of hot mix and warm mix asphalt overlays. Construction and Building Materials, 2020, 265, 120366.	7.2	18
25	Rutting Performance Evaluation of Hot Mix Asphalt and Warm Mix Asphalt Mixtures by Using Dynamic Modulus, Hamburg Wheel Tracking Tests, and Viscoelastic Finite Element Simulations. , 2020, , .		4
26	Explanations of anisotropic strength and fabric evolution in granular soils by DEM simulations and buckling failure theory. Geomechanics and Geoengineering, 2020, , 1-15.	1.8	1
27	Thermal nonlinear performance of the porous metal cylinders with composite graphene nanofiller reinforcement encased in elastic mediums. International Journal of Mechanical Sciences, 2020, 181, 105698.	6.7	22
28	Particle Size Characteristics of Unconventionally Large Aggregate Particles by Stereophotography. , 2020, , .		1
29	Numerical Simulation of Velocity Field around Two Columns of Tandem Piers of the Longitudinal Bridge. Fluids, 2020, 5, 32.	1.7	0
30	Three-dimensional particle shape characterizations from half particle geometries. Powder Technology, 2020, 367, 122-132.	4.2	21
31	Comparing Realistic Particle Simulation Using Discrete Element Method and Physics Engine. , 2020, , .		3
32	Comparisons between Two-Dimensional and Three-Dimensional Fabric Characterizations Based on Scalar Parameters for Sands. , 2020, , .		0
33	Simplified approach to characterize anisotropic strength of granular soils. International Journal of Geo-Engineering, 2020, 11, 1.	2.1	1
34	Clone granular soils with mixed particle morphological characteristics by integrating spherical harmonics with Gaussian mixture model, expectation–maximization, and Dirichlet process. Acta Geotechnica, 2020, 15, 2779-2796.	5.7	12
35	Simulations of realistic granular soils in oedometer tests using physics engine. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 983-1002.	3.3	16
36	Two-dimensional and three-dimensional inherent fabric in cross-anisotropic granular soils. Computers and Geotechnics, 2019, 116, 103197.	4.7	25

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37	Nonlinear stability analysis of thin-walled steel pipe confined in soft bilayer medium. Engineering Structures, 2019, 196, 109318.	5.3	23
38	Improved watershed analysis for segmenting contacting particles of coarse granular soils in volumetric images. Powder Technology, 2019, 356, 295-303.	4.2	42
39	Mechanics of the confined functionally graded porous arch reinforced by graphene platelets. Engineering Structures, 2019, 201, 109817.	5.3	31
40	Collapse mechanism of the thin-walled functionally graded cylinders encased in the saturated permeable mediums. Engineering Structures, 2019, 198, 109472.	5.3	19
41	Analytical consideration and numerical verification of the confined functionally graded porous ring with graphene platelet reinforcement. International Journal of Mechanical Sciences, 2019, 161-162, 105079.	6.7	20
42	Simulation of Realistic Particles with Bullet Physics Engine. E3S Web of Conferences, 2019, 92, 14004.	0.5	7
43	Effect of temperature variations on the stability mechanism of the confined functionally graded porous arch with nanocomposites reinforcement under mechanical loading. Composites Part B: Engineering, 2019, 176, 107330.	12.0	37
44	Nonlinear stability and buckling analysis of composite functionally graded arches subjected to external pressure and temperature loading. Engineering Structures, 2019, 199, 109606.	5.3	28
45	Nonlinear Buckling Mechanism of an Arch Subjected to a Symmetrically-placed Point Load. KSCE Journal of Civil Engineering, 2019, 23, 4781-4789.	1.9	14
46	Minimum image quality for reliable optical characterizations of soil particle shapes. Computers and Geotechnics, 2019, 114, 103110.	4.7	26
47	Effects of grouting voids on the elastic buckling of confined pipe liners subjected to uniform pressure. Thin-Walled Structures, 2019, 137, 502-514.	5.3	31
48	Three-dimensional particle size and shape characterisation using structural light. Geotechnique Letters, 2019, 9, 72-78.	1.2	20
49	Nonlinear structural stability performance of pressurized thin-walled FGM arches under temperature variation field. International Journal of Non-Linear Mechanics, 2019, 113, 86-102.	2.6	38
50	Effect of morphological parameters of natural sand on mechanical properties of engineered cementitious composites. Cement and Concrete Composites, 2019, 100, 108-119.	10.7	80
51	Nonlinear buckling of thin-walled FGM arch encased in rigid confinement subjected to external pressure. Engineering Structures, 2019, 186, 86-95.	5.3	47
52	Material distribution optimization of functionally graded arch subjected to external pressure under temperature rise field. Thin-Walled Structures, 2019, 138, 64-78.	5.3	36
53	Buckling of Thin-Walled High Density Polyethylene Liners Encased in Rigid Pipes under External Pressure and Thermal Effects. , 2019, , .		0
54	Particulate material fabric characterization from volumetric images by computational geometry. Powder Technology, 2019, 344, 804-813.	4.2	24

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55	Leaching and microstructural properties of lead contaminated kaolin stabilized by GGBS-MgO in semi-dynamic leaching tests. Construction and Building Materials, 2018, 172, 626-634.	7.2	78
56	Rammed aggregate pier installation effect on soil properties. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2018, 171, 63-73.	1.0	5
57	Identification and Characterization of Particle Shapes from Images of Sand Assemblies Using Pattern Recognition. Journal of Computing in Civil Engineering, 2018, 32, .	4.7	21
58	Cross-anisotropic fabric of sands by wavelet-based simulation of human cognition. Soils and Foundations, 2018, 58, 1028-1041.	3.1	19
59	Visualizing Failure Surfaces in Soft Clay Due to Suction Caisson Loading. , 2018, , .		1
60	Compressibility of Sands of Various Geologic Origins at Pre-crushing Stress Levels. Geotechnical and Geological Engineering, 2017, 35, 2037-2051.	1.7	19
61	An image based clump library for DEM simulations. Granular Matter, 2017, 19, 1.	2.2	34
62	Particulate material fabric characterization by rotational haar wavelet transform. Computers and Geotechnics, 2017, 88, 46-60.	4.7	25
63	Closure to "Particle Roundness and Sphericity from Images of Assemblies by Chart Estimates and Computer Methods―by Roman D. Hryciw, Junxing Zheng, and Kristen Shetler. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, 07017025.	3.0	1
64	Particle Roundness and Sphericity from Images of Assemblies by Chart Estimates and Computer Methods. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	68
65	Index Void Ratios of Sands from Their Intrinsic Properties. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	57
66	A corner preserving algorithm for realistic DEM soil particle generation. Granular Matter, 2016, 18, 1.	2.2	35
67	Roundness and Sphericity of Soil Particles in Assemblies by Computational Geometry. Journal of Computing in Civil Engineering, 2016, 30, .	4.7	70
68	Segmentation of contacting soil particles in images by modified watershed analysis. Computers and Geotechnics, 2016, 73, 142-152.	4.7	43
69	Optical Flow Analysis of Internal Erosion and Soil Piping in Images Captured by the VisCPT. , 2014, , .		2
70	Soil Particle Size Characterization by Stereophotography. , 2014, , .		14
71	Innovations in Optical Geocharacterization. , 2014, , .		7
72	Three-Dimensional Translucent Segregation Table (3D-TST) test for soil particle size and shape distribution. , 2014, , 1037-1042.		12

#	Article	IF	CITATIONS
73	Rigidity indices of sands from their image-based intrinsic properties. Acta Geotechnica, 0, , 1.	5.7	0