

Shiwei Zhao

List of Publications by Year in descending order

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28
papers

1,773
citations

471061

17
h-index

525886

27
g-index

29
all docs

29
docs citations

29
times ranked

1420
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromechanical behaviors and fabric within the immediate influence zone of granular-continuum interfaces. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 1158-1181.	1.0	4
2	Scalable three-dimensional hybrid continuum-discrete multiscale modeling of granular media. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 2872-2893.	1.5	13
3	Coupled effects of particle overall regularity and sliding friction on the shear behavior of uniformly graded dense sands. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 873-885.	3.7	6
4	Multiscale modeling of coupled thermo-mechanical behavior of granular media in large deformation and flow. <i>Computers and Geotechnics</i> , 2022, 149, 104855.	2.3	13
5	A thread-block-wise computational framework for large-scale hierarchical continuum-discrete modeling of granular media. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 579-608.	1.5	16
6	SudoDEM: Unleashing the predictive power of the discrete element method on simulation for non-spherical granular particles. <i>Computer Physics Communications</i> , 2021, 259, 107670.	3.0	37
7	Three-dimensional Voronoi analysis of realistic grain packing: An XCT assisted set Voronoi tessellation framework. <i>Powder Technology</i> , 2021, 379, 251-264.	2.1	17
8	The microscopic origin of KO on granular soils: the role of particle shape. <i>Acta Geotechnica</i> , 2021, 16, 2089-2109.	2.9	5
9	Bearing capacity and failure of footing on anisotropic soil: A multiscale perspective. <i>Computers and Geotechnics</i> , 2021, 137, 104279.	2.3	21
10	Revisiting the GJK and shape erosion method for contact resolution in DEM. <i>Powder Technology</i> , 2021, 394, 363-371.	2.1	6
11	Discrete element method simulations of offshore plate anchor keying behavior in granular soils. <i>Marine Georesources and Geotechnology</i> , 2020, 38, 716-729.	1.2	9
12	DEM investigation of angle of repose for super-ellipsoidal particles. <i>Particuology</i> , 2020, 50, 53-66.	2.0	35
13	Universality of internal structure characteristics in granular media under shear. <i>Physical Review E</i> , 2020, 101, 012906.	0.8	31
14	Multiscale modeling of thermo-mechanical responses of granular materials: A hierarchical continuum-discrete coupling approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 367, 113100.	3.4	41
15	A poly-superellipsoid-based approach on particle morphology for DEM modeling of granular media. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 2147-2169.	1.7	102
16	Effects of curvature-related DEM contact model on the macro- and micro-mechanical behaviours of granular soils. <i>Geotechnique</i> , 2018, 68, 1085-1098.	2.2	104
17	Three-dimensional Voronoi analysis of monodisperse ellipsoids during triaxial shear. <i>Powder Technology</i> , 2018, 323, 323-336.	2.1	35
18	Shear-induced anisotropy of granular materials with rolling resistance and particle shape effects. <i>International Journal of Solids and Structures</i> , 2018, 150, 268-281.	1.3	126

#	ARTICLE	IF	CITATIONS
19	Effects of particle asphericity on the macro- and micro-mechanical behaviors of granular assemblies. <i>Granular Matter</i> , 2017, 19, 1.	1.1	98
20	Random Packing of Tetrahedral Particles Using the Polyhedral and Multi-sphere Discrete Element Method. <i>Springer Proceedings in Physics</i> , 2017, , 91-99.	0.1	1
21	Particle shape effects on fabric of granular random packing. <i>Powder Technology</i> , 2017, 310, 175-186.	2.1	166
22	Discrete element method investigation on thermally-induced shakedown of granular materials. <i>Granular Matter</i> , 2017, 19, 1.	1.1	31
23	Spatio-temporal variation in rainfall erosivity during 1960â€“2012 in the Pearl River Basin, China. <i>Catena</i> , 2016, 137, 382-391.	2.2	72
24	Random packing of tetrahedral particles using the polyhedral discrete element method. <i>Particuology</i> , 2015, 23, 109-117.	2.0	40
25	A fuzzy comprehensive evaluation model for flood risk based on the combination weight of game theory. <i>Natural Hazards</i> , 2015, 77, 1243-1259.	1.6	164
26	Flood hazard risk assessment model based on random forest. <i>Journal of Hydrology</i> , 2015, 527, 1130-1141.	2.3	478
27	Discrete element simulations of direct shear tests with particle angularity effect. <i>Granular Matter</i> , 2015, 17, 793-806.	1.1	100
28	Neural Network Application Based on GIS and Matlab to Evaluation of Flood Risk. , 2013, , .		0