

Bo Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

787
citations

759233

12
h-index

677142

22
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all docs

22
docs citations

22
times ranked

434
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromorphology characterization and reconstruction of sand particles using micro X-ray tomography and spherical harmonics. <i>Engineering Geology</i> , 2015, 184, 126-137.	6.3	171
2	DEM investigation of particle anti-rotation effects on the micromechanical response of granular materials. <i>Granular Matter</i> , 2013, 15, 315-326.	2.2	112
3	Discrete element modeling of crushable sands considering realistic particle shape effect. <i>Computers and Geotechnics</i> , 2017, 91, 179-191.	4.7	104
4	Generation of realistic sand particles with fractal nature using an improved spherical harmonic analysis. <i>Computers and Geotechnics</i> , 2018, 104, 1-12.	4.7	89
5	Study on the effect of particle morphology on single particle breakage using a combined finite-discrete element method. <i>Computers and Geotechnics</i> , 2020, 122, 103532.	4.7	48
6	Particle classification and intra-particle pore structure of carbonate sands. <i>Engineering Geology</i> , 2020, 279, 105889.	6.3	44
7	Probabilistic characterization and simulation of realistic particle shape based on sphere harmonic representation and Nataf transformation. <i>Powder Technology</i> , 2020, 360, 209-220.	4.2	39
8	A new probabilistic approach for predicting particle crushing in one-dimensional compression of granular soil. <i>Soils and Foundations</i> , 2014, 54, 833-844.	3.1	34
9	Failure mechanism of a slope with a thin soft band triggered by intensive rainfall. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	32
10	DEM-aided direct shear testing of granular sands incorporating realistic particle shape. <i>Granular Matter</i> , 2018, 20, 1.	2.2	29
11	Quantifying the influence of grain morphology on sand hydraulic conductivity: A detailed pore-scale study. <i>Computers and Geotechnics</i> , 2021, 135, 104147.	4.7	16
12	Single-particle crushing behaviour of carbonate sands studied by X-ray microtomography and a combined finite-discrete element method. <i>Acta Geotechnica</i> , 2022, 17, 3195-3209.	5.7	16
13	Discrete element modeling of the compression molding of polymer-crystal composite particles. <i>Powder Technology</i> , 2021, 390, 112-125.	4.2	13
14	An insight into the meso-scale topological structure nature of granular materials subjected to quasi-static shearing. <i>Computers and Geotechnics</i> , 2021, 137, 104257.	4.7	7
15	Size dependences of the mechanical behaviors of basalt rock blocks with hidden joints analyzed using a hybrid DFN-FDEM model. <i>Engineering Fracture Mechanics</i> , 2021, 258, 108078.	4.3	7
16	Effects of amygdale heterogeneity and sample size on the mechanical properties of basalt. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 93-107.	8.1	7
17	Insight into the mechanism of microbially induced carbonate precipitation treatment of bio-improved calcareous sand particles. <i>Acta Geotechnica</i> , 2023, 18, 985-999.	5.7	7
18	An investigation of the pressure dip phenomenon within conical sandpiles using CFD-DEM. <i>Powder Technology</i> , 2022, 398, 117152.	4.2	4

#	ARTICLE	IF	CITATIONS
19	Experimental investigation of both the disturbed and undisturbed granitic saprolite soil. Environmental Earth Sciences, 2020, 79, 1.	2.7	3
20	On the tracking of shelly carbonate sands using deep learning. Geotechnique, 2023, 73, 974-985.	4.0	2
21	Effect of natural defects on the fracture behaviors and failure mechanism of basalt through mesotesting and FDEM modeling. Engineering Fracture Mechanics, 2022, 271, 108598.	4.3	2
22	Effect of Binder Coatings on the Fracture Behavior of Polymer-Crystal Composite Particles Using the Discrete Element Method. Coatings, 2021, 11, 1075.	2.6	1