Dong Su

List of Publications by Year
in descending order

30 papers	**529** citations	567281 **15** h-index	677142 **22** g-index
30 all docs	**30** docs citations	**30** times ranked	**342** citing authors

#	Article	IF	Citations
1	3D characterization of general-shape sand particles using microfocus X-ray computed tomography and spherical harmonic functions, and particle regeneration using multivariate random vector. Powder Technology, 2018, 323, 8-23.	4.2	85
2	Quantification of angularity of general-shape particles by using Fourier series and a gradient-based approach. Construction and Building Materials, 2018, 161, 547-554.	7.2	45
3	A spherical‐harmonic‐based approach to discrete element modeling of <scp>3D</scp> irregular particles. International Journal for Numerical Methods in Engineering, 2021, 122, 5626-5655.	2.8	45
4	Prediction of 3D size and shape descriptors of irregular granular particles from projected 2D images. Acta Geotechnica, 2020, 15, 1533-1555.	5.7	37
5	Three-dimensional finite element study of a single pile response to multidirectional lateral loadings incorporating the simplified state-dependent dilatancy model. Computers and Geotechnics, 2013, 50, 129-142.	4.7	32
6	A novel approach of random packing generation of complex-shaped 3D particles with controllable sizes and shapes. Acta Geotechnica, 2022, 17, 355-376.	5.7	26
7	Effect of Loading Direction on the Response of Laterally Loaded Pile Groups in Sand. International Journal of Geomechanics, 2016, 16, .	2.7	23
8	A Mask R-CNN based particle identification for quantitative shape evaluation of granular materials. Powder Technology, 2021, 392, 296-305.	4.2	20
9	Roughness analysis of general-shape particles, from 2D closed outlines to 3D closed surfaces. Powder Technology, 2019, 356, 423-438.	4.2	19
10	Drained analyses of cylindrical cavity expansion in sand incorporating a bounding-surface model with state-dependent dilatancy. Applied Mathematical Modelling, 2019, 68, 1-20.	4.2	19
11	A multidirectional p‐y model for lateral sand‐pile interactions. Soils and Foundations, 2013, 53, 199-214.	3.1	18
12	Three-dimensional granular column collapse: Impact of column thickness. Powder Technology, 2021, 389, 328-338.	4.2	17
13	Development of a FBG Based Hoop-Strain Sensor Using 3D Printing Method. IEEE Access, 2019, 7, 107154-107160.	4.2	16
14	Inferring 3D particle size and shape characteristics from projected 2D images: Lessons learned from ellipsoids. Computers and Geotechnics, 2018, 104, 281-287.	4.7	15
15	Superellipsoid-based study on reproducing 3D particle geometry from 2D projections. Computers and Geotechnics, 2019, 114, 103131.	4.7	15
16	An in-depth comparative study of three-dimensional angularity indices of general-shape particles based on spherical harmonic reconstruction. Powder Technology, 2020, 364, 1009-1024.	4.2	14
17	Fully Coupled Consolidation Analysis of Shear Strength Mobilization and Dragload of a Pile Subject to Negative Skin Friction. International Journal of Geomechanics, 2015, 15, .	2.7	12
18	Performance investigation of 3D printed clay soil using fiber Bragg grating technology. Acta Geotechnica, 2022, 17, 453-462.	5.7	12

#	Article	IF	Citations
19	Drained solution for cylindrical cavity expansion in modified Cam clay soil under constant vertical stress. Canadian Geotechnical Journal, 2021, 58, 176-189.	2.8	11
20	Effect of Shaking Intensity on Seismic Response of Single-Pile Foundation in Liquefiable Soil. , 2006, , 379.		8
21	Cyclic Degradation of a Multidirectionally Laterally Loaded Rigid Single Pile Model in Compacted Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	7
22	Parametric investigation on the responses of laterally loaded piles in overconsolidated clay using nondimensional solutions addressing nonlinear soil-pile interaction. Computers and Geotechnics, 2018, 96, 203-214.	4.7	7
23	Evaluation of three-dimensional particle shape index from projected two-dimensional image. Geotechnique Letters, 2018, 8, 336-343.	1.2	7
24	Nondimensional Solutions for Laterally Loaded Piles in Sand Considering Nonlinear Soil–Pile Interactions. International Journal of Geomechanics, 2018, 18, .	2.7	6
25	Development of an FBG Sensor for Measuring Large Range and Multi-Directional Settlement. IEEE Access, 2019, 7, 107669-107677.	4.2	5
26	Relationship between p-multiplier and force ratio at pile head considering non-linear soil–pile interaction. Geotechnique, 2019, 69, 1019-1025.	4.0	3
27	Non-dimensional solutions for the stabilising piles in landslides in layered cohesive soils considering non-linear soil–pile interactions. Geotechnique, 2022, 72, 737-751.	4.0	3
28	A Systematic Experimental Study on the Group Effect of Dragloads in Pile Foundations. KSCE Journal of Civil Engineering, 2020, 24, 2038-2048.	1.9	1
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30	A Prediction Model for the Potential Plastic Zone Induced by Tunnel Excavation Adjacent to a Pile Foundation in a Gravity Field. Symmetry, 2019, 11, 1306.	2.2	0