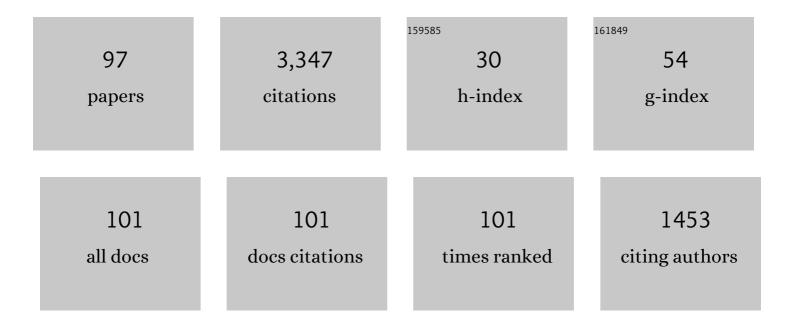
Jianfeng Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	On the tracking of shelly carbonate sands using deep learning. Geotechnique, 2023, 73, 974-985.	4.0	2
2	Insight into the mechanism of microbially induced carbonate precipitation treatment of bio-improved calcareous sand particles. Acta Geotechnica, 2023, 18, 985-999.	5.7	7
3	DEM modeling of one-dimensional compression of sands incorporating statistical particle fragmentation scheme. Canadian Geotechnical Journal, 2022, 59, 144-157.	2.8	18
4	Prediction of 3D contact force chains using artificial neural networks. Engineering Geology, 2022, 296, 106444.	6.3	2
5	Estimation of contact forces of granular materials under uniaxial compression based on a machine learning model. Granular Matter, 2022, 24, 1.	2.2	9
6	Particle shape effect on the shear banding in DEM-simulated sands. Granular Matter, 2022, 24, 1.	2.2	12
7	Constitutive modelling of natural sands using a deep learning approach accounting for particle shape effects. Powder Technology, 2022, 404, 117439.	4.2	12
8	DEM investigations of failure mode of sands under oedometric loading. Advanced Powder Technology, 2022, 33, 103599.	4.1	13
9	DEM simulation of particle crushing in a triaxial test considering the influence of particle morphology and coordination number. Computers and Geotechnics, 2022, 148, 104769.	4.7	10
10	DEM modelling of mini-triaxial test based on one-to-one mapping of sand particles. Geotechnique, 2021, 71, 714-727.	4.0	51
11	DEM simulations of cemented sands with a statistical representation of micro-bond parameters. Powder Technology, 2021, 379, 96-107.	4.2	20
12	DEM study on effect of particle roundness on biaxial shearing of sand. Underground Space (China), 2021, 6, 678-694.	7.5	11
13	Recent Progress on Plant-Inspired Soft Robotics with Hydrogel Building Blocks: Fabrication, Actuation and Application. Micromachines, 2021, 12, 608.	2.9	16
14	DEM study of creep and stress relaxation behaviors of dense sand. Computers and Geotechnics, 2021, 134, 104142.	4.7	10
15	Gene mutation of particle morphology through spherical harmonic-based principal component analysis. Powder Technology, 2021, 386, 176-192.	4.2	15
16	Estimating Contact Force Chains Using Artificial Neural Network. Applied Sciences (Switzerland), 2021, 11, 6278.	2.5	4
17	An investigation of the breakage behaviour of a pre-crushed carbonate sand under shear using X-ray micro-tomography. Engineering Geology, 2021, 293, 106286.	6.3	23
18	Exploring the micromechanical behaviour of sand-rubber mixtures using X-ray micro-tomography. EPJ Web of Conferences, 2021, 249, 11009.	0.3	0

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19	Investigation of particle breakage under one-dimensional compression of sand using X-ray microtomography. Canadian Geotechnical Journal, 2020, 57, 754-762.	2.8	50
20	Dynamic Modeling of Sphere, Cylinder, Cone, and their Assembly. Archives of Computational Methods in Engineering, 2020, 27, 725-772.	10.2	10
21	Discontinuous deformation analysis for SH-body. Computers and Geotechnics, 2020, 117, 103234.	4.7	14
22	Numerical modeling of geomaterial fracture using a cohesive crack model in grain-based DEM. Computational Particle Mechanics, 2020, 7, 645-654.	3.0	21
23	Blind matching of crushed sand particles via branch and bound. Powder Technology, 2020, 359, 268-281.	4.2	7
24	Particle classification and intra-particle pore structure of carbonate sands. Engineering Geology, 2020, 279, 105889.	6.3	44
25	A Novel Multi-Scale Particle Morphology Descriptor with the Application of SPHERICAL Harmonics. Materials, 2020, 13, 3286.	2.9	12
26	The micro-mechanical behaviour of sand–rubber mixtures under shear: An experimental study based on X-ray micro-tomography. Soils and Foundations, 2020, 60, 1251-1268.	3.1	22
27	Study on the effect of particle morphology on single particle breakage using a combined finite-discrete element method. Computers and Geotechnics, 2020, 122, 103532.	4.7	48
28	A miniature triaxial apparatus for investigating the micromechanics of granular soils with in situ X-ray micro-tomography scanning. Frontiers of Structural and Civil Engineering, 2020, 14, 357-373.	2.9	29
29	Tracking particles in sands based on particle shape parameters. Advanced Powder Technology, 2020, 31, 2005-2019.	4.1	12
30	A DEM investigation on crushing of sand particles containing intrinsic flaws. Soils and Foundations, 2020, 60, 562-572.	3.1	20
31	Improved region growing method for image segmentation of three-phase materials. Powder Technology, 2020, 368, 80-89.	4.2	15
32	DEM Simulation of Creep in One-Dimensional Compression of Crushable Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	11
33	Investigation of the fabric evolution and the stress-transmission behaviour of sands based on X-ray μCT images. Advanced Powder Technology, 2019, 30, 1858-1869.	4.1	9
34	Visualization of Failure and the Associated Grain-Scale Mechanical Behavior of Granular Soils under Shear using Synchrotron X-Ray Micro-Tomography. Journal of Visualized Experiments, 2019, , .	0.3	7
35	Variational inequalityâ€based particle discontinuous deformation analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1995-2019.	3.3	13
36	Exploring the effect of 3D grain shape on the packing and mechanical behaviour of sands. Geotechnique Letters, 2019, 9, 299-304.	1.2	10

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37	Registration of point cloud data for matching crushed sand particles. Powder Technology, 2019, 347, 227-242.	4.2	21
38	Quantification of the strain field of sands based on X-ray micro-tomography: A comparison between a grid-based method and a mesh-based method. Powder Technology, 2019, 344, 314-334.	4.2	32
39	A novel particle tracking method for granular sands based on spherical harmonic rotational invariants. Geotechnique, 2018, 68, 1116-1123.	4.0	34
40	Static fatigue of sand particles. Canadian Geotechnical Journal, 2018, 55, 1682-1687.	2.8	4
41	A simple method for particle shape generation with spherical harmonics. Powder Technology, 2018, 330, 284-291.	4.2	54
42	A particle-tracking method for experimental investigation of kinematics of sand particles under triaxial compression. Powder Technology, 2018, 328, 436-451.	4.2	55
43	A generalized contact potential and its application in discontinuous deformation analysis. Computers and Geotechnics, 2018, 99, 104-114.	4.7	27
44	Three-dimensional sphericity, roundness and fractal dimension of sand particles. Geotechnique, 2018, 68, 18-30.	4.0	134
45	Quantification of particle crushing in consideration of grading evolution of granular soils in biaxial shearing: A probabilityâ€based model. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 488-515.	3.3	16
46	An Investigation of 3D Sand Particle Fragment Reassembly. Trends in Mathematics, 2018, , 383-390.	0.1	0
47	Evolution of Granular Contact Gain, Loss and Movement Under Shear Studied Using Synchrotron X-ray Micro-tomography. Trends in Mathematics, 2018, , 81-88.	0.1	2
48	Experimental investigation of inter-particle contact evolution of sheared granular materials using X-ray micro-tomography. Soils and Foundations, 2018, 58, 1492-1510.	3.1	65
49	Reassembling fractured sand particles using fracture-region matching algorithm. Powder Technology, 2018, 338, 55-66.	4.2	25
50	Generation of realistic sand particles with fractal nature using an improved spherical harmonic analysis. Computers and Geotechnics, 2018, 104, 1-12.	4.7	89
51	Influence and countermeasure of specimen misalignment to small-strain behavior of soft marine clay. Marine Georesources and Geotechnology, 2017, 35, 170-175.	2.1	5
52	Generation of a realistic 3D sand assembly using Xâ€ray microâ€computed tomography and spherical harmonicâ€based principal component analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 93-109.	3.3	99
53	Particle shape quantification using rotation-invariant spherical harmonic analysis. Geotechnique Letters, 2017, 7, 190-196.	1.2	24
54	Role of normal boundary condition in interface shear test for the determination of skin friction along pile shaft. Canadian Geotechnical Journal, 2017, 54, 1245-1256.	2.8	13

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55	Discrete element analysis of the mechanical properties of deep-sea methane hydrate-bearing soils considering interparticle bond thickness. Comptes Rendus - Mecanique, 2017, 345, 868-889.	2.1	15
56	Application of spherical harmonics analysis on LBS particles and LBS fragments. EPJ Web of Conferences, 2017, 140, 05002.	0.3	2
57	DEM Analysis of Geomechanical Properties of Cemented Methane Hydrate–Bearing Soils at Different Temperatures and Pressures. International Journal of Geomechanics, 2016, 16, .	2.7	29
58	Limit equilibrium method for rock slope stability analysis by using the Generalized Hoek–Brown criterion. International Journal of Rock Mechanics and Minings Sciences, 2016, 89, 176-184.	5.8	47
59	3D quantitative shape analysis on form, roundness, and compactness with μCT. Powder Technology, 2016, 291, 262-275.	4.2	211
60	Depth-independent cone penetration mechanism by a discrete element method (DEM)-based stress normalization approach. Canadian Geotechnical Journal, 2016, 53, 871-883.	2.8	21
61	A novel three-dimensional contact model for granulates incorporating rolling and twisting resistances. Computers and Geotechnics, 2015, 65, 147-163.	4.7	181
62	An investigation of single sand particle fracture using X-ray micro-tomography. Geotechnique, 2015, 65, 625-641.	4.0	245
63	Random generation of natural sand assembly using micro x-ray tomography and spherical harmonics. Geotechnique Letters, 2015, 5, 6-11.	1.2	56
64	A comprehensive study on the smooth joint model in DEM simulation of jointed rock masses. Granular Matter, 2015, 17, 775-791.	2.2	36
65	Micromorphology characterization and reconstruction of sand particles using micro X-ray tomography and spherical harmonics. Engineering Geology, 2015, 184, 126-137.	6.3	171
66	DEM Analyses of an Uplift Failure Mechanism with Pipe Buried in Cemented Granular Ground. International Journal of Geomechanics, 2015, 15, .	2.7	10
67	Discrete-continuum analysis of monotonic pile penetration in crushable sands. Canadian Geotechnical Journal, 2014, 51, 1095-1110.	2.8	36
68	A new probabilistic approach for predicting particle crushing in one-dimensional compression of granular soil. Soils and Foundations, 2014, 54, 833-844.	3.1	34
69	Distinct simulation of earth pressure against a rigid retaining wall considering inter-particle rolling resistance in sandy backfill. Granular Matter, 2014, 16, 797-814.	2.2	33
70	Investigation of the fracture behaviour of individual LBS particle using Nanofocus X-ray CT. , 2014, , 1125-1129.		0
71	Multiscale failure modeling in granular soils. , 2014, , 758-763.		0
72	On the role of particle breakage in the shear failure behavior of granular soils by DEM. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 832-854.	3.3	133

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73	DEM investigation of particle anti-rotation effects on the micromechanical response of granular materials. Granular Matter, 2013, 15, 315-326.	2.2	112
74	DEM Study on Energy Allocation Behavior in Crushable Soils. Advanced Materials Research, 2013, 871, 119-123.	0.3	0
75	DEM-Aided Discovery of the Relationship between Energy Dissipation and Shear Band Formation Considering the Effects of Particle Rolling Resistance. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1512-1527.	3.0	46
76	Evolution of sand crushability and its effect on particle-scale energy allocation. , 2013, , .		2
77	DEM analysis of energy dissipation in crushable soils. Soils and Foundations, 2012, 52, 644-657.	3.1	109
78	3D DEM Simulation of Crushable Granular Soils under Plane Strain Compression Condition. Procedia Engineering, 2011, 14, 1713-1720.	1.2	17
79	Unified soil behavior of interface shear test and direct shear test under the influence of lower moving boundaries. Granular Matter, 2011, 13, 631-641.	2.2	56
80	MICROMECHANICAL STUDY OF STRAIN LOCALIZATION AND FAILURE IN THE DIRECT SHEAR TEST OF GRANULAR SOILS. Springer Series in Geomechanics and Geoengineering, 2011, , 17-20.	0.1	0
81	Structural Transformation of Clay Minerals by a New Molecular Dynamics Simulation Method. , 2010, , .		0
82	Molecular simulations of clay minerals: a study considering the change of cell size and shape. Acta Geotechnica, 2010, 5, 151-167.	5.7	1
83	Molecular Structural Transformation of 2:1 Clay Minerals by a Constant-Pressure Molecular Dynamics Simulation Method. Journal of Nanomaterials, 2010, 2010, 1-13.	2.7	Ο
84	Discrete element simulations of direct shear specimen scale effects. Geotechnique, 2010, 60, 395-409.	4.0	107
85	Steady state strength behavior of a particulate-solid interphase system. , 2010, , 537-541.		0
86	Modeling Of Scale Effects On The Micromechanics Of Granular Media Under Direct Shear Condition. , 2009, , .		3
87	Molecular Simulations of Cyclic Loading Behavior of Carbon Nanotubes Using the Atomistic Finite Element Method. Journal of Nanomaterials, 2009, 2009, 1-9.	2.7	4
88	Non-coaxial version of Rowe's stress-dilatancy relation. Granular Matter, 2009, 11, 129-137.	2.2	21
89	Modeling of the simple shear deformation of sand: effects of principal stress rotation. Acta Geotechnica, 2009, 4, 193-201.	5.7	24
90	Discrete-continuum analysis of shear banding in the direct shear test. Geotechnique, 2007, 57, 513-526.	4.0	86

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91	Nanoscale Simulations of Rock and Clay Minerals. , 2007, , 1.		5
92	Anisotropy-Based Failure Criterion for Interphase Systems. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 599-608.	3.0	33
93	Numerical studies of shear banding in interface shear tests using a new strain calculation method. International Journal for Numerical and Analytical Methods in Geomechanics, 2007, 31, 1349-1366.	3.3	82
94	Stress–strain behaviour of carbon nanotubes under cyclic loading. Micro and Nano Letters, 2007, 2, 111.	1.3	6
95	Determining particulate–solid interphase strength using shear-induced anisotropy. Granular Matter, 2007, 9, 231-240.	2.2	29
96	Particle-scale surface interactions of non-dilative interface systems. Geotextiles and Geomembranes, 2006, 24, 156-168.	4.6	53
97	Investigation of the Deformable Behavior of Loose and Dense Sand through DEM. Advanced Materials Research, 0, 871, 124-128.	0.3	Ο