

mingjing Jiang

List of Publications by Year in descending order

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70
papers

1,849
citations

218677

26
h-index

276875

41
g-index

70
all docs

70
docs citations

70
times ranked

1119
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel three-dimensional contact model for granulates incorporating rolling and twisting resistances. <i>Computers and Geotechnics</i> , 2015, 65, 147-163.	4.7	181
2	DEM simulation of bonded granular material. Part I: Contact model and application to cemented sand. <i>Computers and Geotechnics</i> , 2016, 75, 192-209.	4.7	104
3	A simple and efficient approach to capturing bonding effect in naturally microstructured sands by discrete element method. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 1158-1193.	2.8	98
4	Summary of collapsible behaviour of artificially structured loess in oedometer and triaxial wetting tests. <i>Canadian Geotechnical Journal</i> , 2012, 49, 1147-1157.	2.8	87
5	A bond contact model for methane hydrate-bearing sediments with interparticle cementation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1823-1854.	3.3	75
6	An investigation on loose cemented granular materials via DEM analyses. <i>Granular Matter</i> , 2013, 15, 65-84.	2.2	59
7	Unified soil behavior of interface shear test and direct shear test under the influence of lower moving boundaries. <i>Granular Matter</i> , 2011, 13, 631-641.	2.2	56
8	DEM simulation of bonded granular material. Part II: Extension to grain-coating type methane hydrate bearing sand. <i>Computers and Geotechnics</i> , 2016, 75, 225-243.	4.7	53
9	Yielding of Microstructured Geomaterial by Distinct Element Method Analysis. <i>Journal of Engineering Mechanics - ASCE</i> , 2005, 131, 1209-1213.	2.9	51
10	Investigating mechanism of inclined CPT in granular ground using DEM. <i>Granular Matter</i> , 2014, 16, 785-796.	2.2	50
11	Two-Dimensional Discrete Element Theory for Rough Particles. <i>International Journal of Geomechanics</i> , 2009, 9, 20-33.	2.7	47
12	Properties of TJ-1 Lunar Soil Simulant. <i>Journal of Aerospace Engineering</i> , 2012, 25, 463-469.	1.4	46
13	DEM-Aided Discovery of the Relationship between Energy Dissipation and Shear Band Formation Considering the Effects of Particle Rolling Resistance. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1512-1527.	3.0	46
14	Study of mechanical behavior and strain localization of methane hydrate bearing sediments with different saturations by a new DEM model. <i>Computers and Geotechnics</i> , 2014, 57, 122-138.	4.7	46
15	Distinct element method analyses of idealized bonded-granulate cut slope. <i>Granular Matter</i> , 2012, 14, 393-410.	2.2	43
16	DEM investigation of mechanical behavior and strain localization of methane hydrate bearing sediments with different temperatures and water pressures. <i>Engineering Geology</i> , 2017, 223, 92-109.	6.3	42
17	Strain localization analyses of idealized sands in biaxial tests by distinct element method. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2010, 4, 208-222.	0.4	39
18	Stress-induced anisotropy in sand under cyclic loading. <i>Granular Matter</i> , 2010, 12, 469-476.	2.2	37

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19	Distinct element analysis of the microstructure evolution in granular soils under cyclic loading. <i>Granular Matter</i> , 2019, 21, 1.	2.2	36
20	An evaluation on the degradation evolutions in three constitutive models for bonded geomaterials by DEM analyses. <i>Computers and Geotechnics</i> , 2014, 57, 1-16.	4.7	34
21	Distinct simulation of earth pressure against a rigid retaining wall considering inter-particle rolling resistance in sandy backfill. <i>Granular Matter</i> , 2014, 16, 797-814.	2.2	33
22	3-D DEM simulations of drained triaxial tests on inherently anisotropic granulates. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, s37-s56.	2.1	30
23	Investigation into the effect of backpressure on the mechanical behavior of methane-hydrate-bearing sediments via DEM analyses. <i>Computers and Geotechnics</i> , 2015, 69, 551-563.	4.7	29
24	DEM Analysis of Geomechanical Properties of Cemented Methane Hydrate-bearing Soils at Different Temperatures and Pressures. <i>International Journal of Geomechanics</i> , 2016, 16, .	2.7	29
25	Effect of Polyacrylamide on Improvement of Dredger Fill with Vacuum Preloading Method. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	2.9	29
26	Salinity effects on the mechanical behaviour of methane hydrate bearing sediments: A DEM investigation. <i>Computers and Geotechnics</i> , 2021, 133, 104067.	4.7	27
27	Shear band formation in lunar regolith by discrete element analyses. <i>Granular Matter</i> , 2016, 18, 1.	2.2	26
28	Micro origins for macro behavior in granular media. <i>Granular Matter</i> , 2016, 18, 1.	2.2	24
29	Shear strength of unsaturated granular soils: three-dimensional discrete element analyses. <i>Granular Matter</i> , 2016, 18, 1.	2.2	24
30	Numerical study of inter-particle bond failure by 3D discrete element method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 523-545.	3.3	23
31	A coupled CFD-DEM method with moving mesh for simulating undrained triaxial tests on granular soils. <i>Granular Matter</i> , 2020, 22, 1.	2.2	22
32	A bond failure criterion for DEM simulations of cemented geomaterials considering variable bond thickness. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1871-1897.	3.3	21
33	Wetting-Induced Collapse Behavior of Unsaturated and Structural Loess under Biaxial Tests Using Distinct Element Method. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	19
34	Granular soils: from DEM simulation to constitutive modeling. <i>Acta Geotechnica</i> , 2020, 15, 1723-1744.	5.7	19
35	Distinct element method analysis of jointed rock fragmentation induced by TBM cutting. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, s79-s98.	2.1	18
36	Numerical analyses of braced excavation in granular grounds: continuum and discrete element approaches. <i>Granular Matter</i> , 2013, 15, 195-208.	2.2	17

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37	Experimental study of two saturated natural soils and their saturated remoulded soils under three consolidated undrained stress paths. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2011, 5, 225-238.	0.4	16
38	A simple three-dimensional distinct element modeling of the mechanical behavior of bonded sands. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015, 39, 1791-1820.	3.3	15
39	A size-dependent bond failure criterion for cemented granules based on experimental studies. <i>Computers and Geotechnics</i> , 2015, 69, 182-198.	4.7	14
40	A numerical investigation on the mechanical properties of hydrate-bearing sand using Distinct Element Method. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104328.	4.4	14
41	Analytical study of ground responses induced by the excavation of quasirectangular tunnels at shallow depths. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 2200-2223.	3.3	13
42	Stabilization Effect of Anionic Polyacrylamide on Marine Clay Treated with Lime. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	13
43	Fabric rates of elliptical particle assembly in monotonic and cyclic simple shear tests: a numerical study. <i>Granular Matter</i> , 2016, 18, 1.	2.2	12
44	DEM Analyses of an Uplift Failure Mechanism with Pipe Buried in Cemented Granular Ground. <i>International Journal of Geomechanics</i> , 2015, 15, .	2.7	10
45	Effects of frequency and cyclic stress ratio on creep behavior of clay under cyclic loading. <i>Marine Georesources and Geotechnology</i> , 2017, 35, 281-291.	2.1	10
46	Solutions for lined circular tunnels sequentially constructed in rheological rock subjected to non-hydrostatic initial stresses. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 1834-1866.	2.1	10
47	DEM Modeling Mechanical Behavior of Unsaturated Structural Loess under Constant Stress Increment Ratio Compression Tests. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	9
48	Investigation of influence of particle characteristics on the non-coaxiality of anisotropic granular materials using DEM. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017, 41, 198-222.	3.3	9
49	Viscoelastic ground responses around shallow tunnels considering surcharge loadings and effect of supporting. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 2306-2328.	2.1	9
50	Efficient Iterative Analytical Model for Underground Seepage around Multiple Tunnels in Semi-Infinite Saturated Media. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	9
51	Investigating the shear band of methane hydrate-bearing sediments by FEM with an elasto-plastic constitutive model. <i>Bulletin of Engineering Geology and the Environment</i> , 2018, 77, 1015-1025.	3.5	8
52	Evolution of mesoscale bonded particle clusters in cemented granular material. <i>Acta Geotechnica</i> , 2019, 14, 1653-1667.	5.7	8
53	Distinct element modeling of rock fragmentation by TBM cutter. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 2010-2031.	2.1	8
54	Fabric rates applied to kinematic models: evaluating elliptical granular materials under simple shear tests via discrete element method. <i>Granular Matter</i> , 2016, 18, 1.	2.2	6

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55	Discrete element analysis of chemical weathering on rock. <i>European Journal of Environmental and Civil Engineering</i> , 2015, 19, s15-s28.	2.1	5
56	Influence of time-dependence on failure of echelon rock joints through a novel DEM model. <i>European Journal of Environmental and Civil Engineering</i> , 2015, 19, s108-s118.	2.1	5
57	CPT-based estimation of bearing and deformation indexes for TJ-1 lunar soil simulant ground. , 2013, , .		4
58	Three-dimensional DEM investigation of the stress-dilatancy relation of grain-cementing type methane hydrate-bearing sediment. <i>Petroleum</i> , 2021, , .	2.8	4
59	Simulation of runout behavior of submarine debris flows over regional natural terrain considering material softening. <i>Marine Georesources and Geotechnology</i> , 2023, 41, 175-194.	2.1	3
60	Strength and fabric evolution of unsaturated granular materials by 3D DEM analyses. , 2013, , .		2
61	A damage evolution law enriched by microscopic mechanisms for structured sand in mechanical loading. <i>Acta Geotechnica</i> , 2019, 14, 1905-1924.	5.7	2
62	Do the normal compression lines of cemented and uncemented geomaterials run parallel or converge to each other after yielding?. <i>European Journal of Environmental and Civil Engineering</i> , 2021, 25, 368-386.	2.1	2
63	Instability analysis of jointed rock slope subject to rainfall using DEM strength reduction technique. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 4664-4686.	2.1	2
64	DEM Analysis of Mechanical Behavior of Unsaturated Silt under Strain-Controlled Constant Stress Ratio Compression Tests. <i>International Journal of Geomechanics</i> , 2021, 21, .	2.7	2
65	Elasto-plastic analysis of circular tunnel in rock mass with confining stress-dependent strain-softening behavior considering intermediate principal stress. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	2
66	Characterizing inclined loading capacity of a pile embedded in methane-hydrate-bearing marine sediments. , 2013, , .		1
67	Investigating the shear behaviors of unsaturated structured loess in direct shear test by the discrete element method. <i>Japanese Geotechnical Society Special Publication</i> , 2020, 8, 294-298.	0.2	1
68	DEM analysis of passive failure in structured sand ground behind a retaining wall. <i>Granular Matter</i> , 2022, 24, 1.	2.2	1
69	Geomechanics: from micro to macro editorial. <i>Granular Matter</i> , 2010, 12, 457-458.	2.2	0
70	Dynamic Response of Lunar Soil Caused by Landing Impact. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 4282-4292.	1.9	0