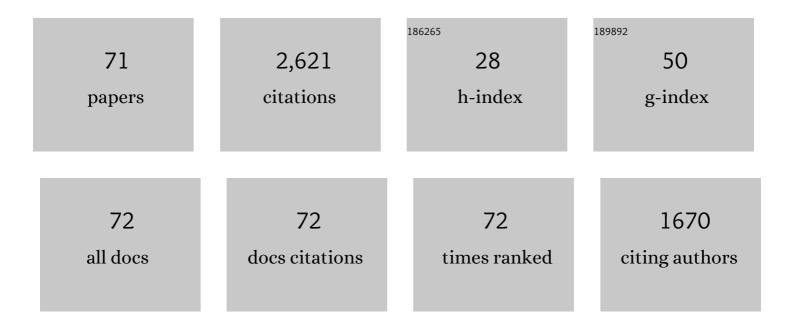
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Insight into contact forces in crushable sand using experiments and predictive particle-scale modelling. Geotechnique, 2024, 74, 238-249.	4.0	4
2	Localised failure of geomaterials: how to extract localisation band behaviour from macro test data. Geotechnique, 2022, 72, 596-609.	4.0	3
3	Bridging length scales in granular materials using convolutional neural networks. Computational Particle Mechanics, 2022, 9, 221-235.	3.0	6
4	Mechanical behaviour of granular media in flexible boundary plane strain conditions: experiment and level-set discrete element modelling. Acta Geotechnica, 2021, 16, 113-132.	5.7	6
5	Modeling connected granular media: Particle bonding within the level set discrete element method. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113486.	6.6	18
6	Undrained instability detection under general stress conditions. Acta Geotechnica, 2021, 16, 3041-3059.	5.7	1
7	Implications of Buckingham's Pi Theorem to the Study of Similitude in Discrete Structures: Introduction of the RFN, μN, and SN Dimensionless Numbers and the Concept of Structural Speed. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	6
8	An Experimental Study of the Effect of Particle Shape on Force Transmission and Mobilized Strength of Granular Materials. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	6
9	Structured fabrics with tunable mechanical properties. Nature, 2021, 596, 238-243.	27.8	155
10	Tunnel excavation in granular media: the role of force chains. Granular Matter, 2021, 23, 1.	2.2	4
11	Unearthing real-time 3D ant tunneling mechanics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
12	Emerging contact force heterogeneity in ordered soft granular media. Mechanics of Materials, 2021, 162, 104055.	3.2	3
13	Effect of fabric on shear wave velocity in granular soils. Acta Geotechnica, 2020, 15, 1189-1203.	5.7	24
14	Investigating the incremental behavior of granular materials with the level-set discrete element method. Journal of the Mechanics and Physics of Solids, 2020, 144, 104103.	4.8	28
15	Identifying spatial transitions in heterogenous granular flow. Granular Matter, 2020, 22, 1.	2.2	6
16	Reduced Gravity Effects on the Strength of Granular Matter: DEM Simulations versus Experiments. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	12
17	Level set splitting in DEM for modeling breakage mechanics. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 112961.	6.6	36
18	Effect of Confinement on Capillary Phase Transition in Granular Aggregates. Physical Review Letters, 2020, 125, 255501.	7.8	9

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19	Multiscale and Multiphysics Modeling of Soils. Springer Series in Geomechanics and Geoengineering, 2019, , 141-168.	0.1	1
20	Capturing the inter-particle force distribution in granular material using LS-DEM. Granular Matter, 2019, 21, 1.	2.2	25
21	Modeling the static liquefaction of unsaturated sand containing gas bubbles. Soils and Foundations, 2018, 58, 122-133.	3.1	16
22	Failures in sand in reduced gravity environments. Journal of the Mechanics and Physics of Solids, 2018, 113, 1-12.	4.8	19
23	All you need is shape: Predicting shear banding in sand with LS-DEM. Journal of the Mechanics and Physics of Solids, 2018, 111, 375-392.	4.8	248
24	A model for decoding the life cycle of granular avalanches in a rotating drum. Acta Geotechnica, 2018, 13, 549-555.	5.7	8
25	Granular object morphological generation with genetic algorithms for discrete element simulations. Granular Matter, 2018, 20, 1.	2.2	9
26	Predicting the initiation of static liquefaction of crossâ€anisotropic sands under multiaxial stress conditions. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 1724-1740.	3.3	11
27	Imageâ€based modeling of granular porous media. Geophysical Research Letters, 2017, 44, 4738-4746.	4.0	59
28	A geometry-based algorithm for cloning real grains. Granular Matter, 2017, 19, 1.	2.2	16
29	Experimental Investigation of InSight HP3 Mole Interaction with Martian Regolith Simulant. Space Science Reviews, 2017, 211, 239-258.	8.1	8
30	Flow Liquefaction Instability as a Mechanism for Lower End of Liquefaction Charts. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	3
31	A novel experimental device for investigating the multiscale behavior of granular materials under shear. Granular Matter, 2017, 19, 1.	2.2	19
32	Continuum modeling of rate-dependent granular flows in SPH. Computational Particle Mechanics, 2017, 4, 119-130.	3.0	16
33	From computed tomography to mechanics of granular materials via level set bridge. Acta Geotechnica, 2017, 12, 85-95.	5.7	35
34	Low-Gravity Experiments: Shear Testing Takes a Nose Dive. Geo-strata, 2017, 21, 34-40.	0.1	0
35	A microâ€mechanical study of peak strength and critical state. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1184-1202.	3.3	7
36	Strength criterion for cross-anisotropic sand under general stress conditions. Acta Geotechnica, 2016, 11, 1339-1350.	5.7	19

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37	Effects of grain morphology on critical state: a computational analysis. Acta Geotechnica, 2016, 11, 493-503.	5.7	72
38	Level set discrete element method for three-dimensional computations with triaxial case study. Journal of the Mechanics and Physics of Solids, 2016, 91, 1-13.	4.8	194
39	Mechanics of origin of flow liquefaction instability under proportional strain triaxial compression. Acta Geotechnica, 2016, 11, 1015-1025.	5.7	17
40	Multiscale characterization and modeling of granular materials through a computational mechanics avatar: a case study with experiment. Acta Geotechnica, 2016, 11, 243-253.	5.7	29
41	Friction in inertial granular flows: competition between dilation and grain-scale dissipation rates. Granular Matter, 2015, 17, 287-295.	2.2	32
42	Grain-Scale Measurements During Low Velocity Impact in Granular Media. , 2015, , 291-317.		2
43	Strength of Granular Materials in Transient and Steady State Rapid Shear. Procedia Engineering, 2015, 103, 237-245.	1.2	1
44	Flow liquefaction instability prediction using finite elements. Acta Geotechnica, 2015, 10, 83-100.	5.7	20
45	Force chains as the link between particle and bulk friction angles in granular material. Geophysical Research Letters, 2014, 41, 8862-8869.	4.0	15
46	Granular element method for threeâ€dimensional discrete element calculations. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 167-188.	3.3	76
47	Towards a more accurate characterization of granular media: extracting quantitative descriptors from tomographic images. Granular Matter, 2014, 16, 9-21.	2.2	77
48	On the contact treatment of non-convex particles in the granular element method. Computational Particle Mechanics, 2014, 1, 257-275.	3.0	25
49	A contact dynamics approach to the Granular Element Method. Computer Methods in Applied Mechanics and Engineering, 2014, 268, 557-573.	6.6	28
50	Extracting inter-particle forces in opaque granular materials: Beyond photoelasticity. Journal of the Mechanics and Physics of Solids, 2014, 63, 154-166.	4.8	82
51	Criterion for flow liquefaction instability. Acta Geotechnica, 2013, 8, 525-535.	5.7	44
52	Granular element method for computational particle mechanics. Computer Methods in Applied Mechanics and Engineering, 2012, 241-244, 262-274.	6.6	120
53	On the rheology of dilative granular media: Bridging solid- and fluid-like behavior. Journal of the Mechanics and Physics of Solids, 2012, 60, 1122-1136.	4.8	66
54	Characterization of random fields and their impact on the mechanics of geosystems at multiple scales. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 140-165.	3.3	50

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55	Granular element method (GEM): linking inter-particle forces with macroscopic loading. Granular Matter, 2012, 14, 51-61.	2.2	39
56	Connecting microstructural attributes and permeability from 3D tomographic images of in situ shear-enhanced compaction bands using multiscale computations. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	75
57	AES for multiscale localization modeling in granular media. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2473-2482.	6.6	31
58	MULTISCALE MODELING OF GRANULAR MATTER: AÂHIERARCHICAL SCHEME. Springer Series in Geomechanics and Geoengineering, 2011, , 45-48.	0.1	0
59	DIFFUSE BIFURCATIONS OF POROUS MEDIA UNDER PARTIALLY DRAINED CONDITIONS. Springer Series in Geoengineering, 2011, , 61-64.	0.1	0
60	Multiscale framework for behavior prediction in granular media. Mechanics of Materials, 2009, 41, 652-669.	3.2	73
61	Return mapping for nonsmooth and multiscale elastoplasticity. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 2286-2296.	6.6	43
62	Liquefaction Mapping in Finite-Element Simulations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1693-1701.	3.0	9
63	Random porosity fields and their influence on the stability of granular media. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1147-1172.	3.3	34
64	Criteria for static equilibrium in particulate mechanics computations. International Journal for Numerical Methods in Engineering, 2008, 75, 1581-1606.	2.8	40
65	A Predictive Model for Static Liquefaction. , 2008, , .		0
66	Evaluation of a Predictive Constitutive Model for Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 1825-1828.	3.0	14
67	Characterization and Modeling of Pores and Surfaces in Cement Paste. Journal of Advanced Concrete Technology, 2008, 6, 5-29.	1.8	185
68	Modeling deformation banding in dense and loose fluid-saturated sands. Finite Elements in Analysis and Design, 2007, 43, 361-383.	3.2	64
69	Critical state plasticity. Part VI: Meso-scale finite element simulation of strain localization in discrete granular materials. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 5115-5140.	6.6	82
70	Quantifying sensitivity of local site response models to statistical variations in soil properties. Acta Geotechnica, 2006, 1, 3-14.	5.7	30
71	Capturing strain localization in dense sands with random density. International Journal for Numerical Methods in Engineering, 2006, 67, 1531-1564.	2.8	95