List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	FEM×DEM multiâ€scale model for cemented granular materials: Inter―and intraâ€granular cracking induced strain localisation. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 1001-1025.	1.7	8
2	Étude du comportement de l'interface sable-pieu sous chargement axial monotone et cyclique Ã l'échelle granulaire. Revue Française De Géotechnique, 2021, , 4.	0.1	2
3	Grain-scale DEM study of open-ended pipe pile penetration in granular soils. EPJ Web of Conferences, 2021, 249, 11007.	0.1	0
4	High compressibility caused by particle breakage: a DEM investigation. EPJ Web of Conferences, 2021, 249, 07011.	0.1	0
5	Sample preparation of dense granular materials Influence of void ratio e and coordination number Z* on the mechanical behaviour at failure. EPJ Web of Conferences, 2021, 249, 02012.	0.1	0
6	An assessment of discrete element approaches to infer intergranular forces from experiments on 2D granular media. International Journal of Solids and Structures, 2020, 187, 48-57.	1.3	6
7	The particle image tracking technique: An accurate optical method for measuring individual kinematics of rigid particles. Strain, 2020, 56, e12362.	1.4	1
8	A numerical homogenized law using discrete element method for continuum modelling of boundary value problems. Lecture Notes in Civil Engineering, 2020, , 715-720.	0.3	0
9	Characterising processes at sand-pile interface using digital image analysis and X-ray CT. Geotechnique Letters, 2019, 9, 254-262.	0.6	11
10	From discrete to continuum modelling of boundary value problems in geomechanics: An integrated FEMâ€ĐEM approach. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 919-955.	1.7	48
11	X-ray CT analysis of the evolution of ballast grain morphology along a Micro-Deval test: key role of the asperity scale. Granular Matter, 2019, 21, 1.	1.1	21
12	Shaft friction changes for cyclically loaded displacement piles: an X-ray investigation. Geotechnique Letters, 2018, 8, 66-72.	0.6	21
13	FEM×DEM multiscale modeling: Model performance enhancement from Newton strategy to element loop parallelization. International Journal for Numerical Methods in Engineering, 2018, 114, 47-65.	1.5	20
14	Emergence of Shear Bands in Confined Granular Systems: Singularity of the q-Statistics. Entropy, 2018, 20, 862.	1.1	5
15	Fingering phenomena during grain–grain displacement. Computational Particle Mechanics, 2017, 4, 153-164.	1.5	4
16	Restoring Mesh Independency in FEM-DEM Multi-scale Modelling of Strain Localization Using Second Gradient Regularization. Springer Series in Geomechanics and Geoengineering, 2017, , 453-457.	0.0	5
17	Effects of a large number of cycles on pile shaft resistance analyzed at the grain scale using x-ray tomography. EPJ Web of Conferences, 2017, 140, 07014.	0.1	1
18	Experimental investigation of mode I fracture for brittle tube-shaped particles. EPJ Web of Conferences, 2017, 140, 07015.	0.1	3

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19	FEM × DEM: a new efficient multi-scale approach for geotechnical problems with strain localization. EPJ Web of Conferences, 2017, 140, 11007.	0.1	6
20	Assessing contact forces in granular materials from experimental measurements of kinematics. EPJ Web of Conferences, 2017, 140, 02012.	0.1	3
21	Stochastic model for the micromechanics of jammed granular materials: experimental studies and numerical simulations. EPJ Web of Conferences, 2017, 140, 02021.	0.1	1
22	Wear of sharp aggregates in a rotating drum. EPJ Web of Conferences, 2017, 140, 07009.	0.1	6
23	Quantifying Degradation of Railway Ballast Using Numerical Simulations of Micro-deval Test and In-situ Conditions. Procedia Engineering, 2016, 143, 1016-1023.	1.2	15
24	A study of the influence of REV variability in doubleâ€scale FEM ×DEM analysis. International Journal for Numerical Methods in Engineering, 2016, 107, 882-900.	1.5	26
25	Experimental Validation of a Nonextensive Scaling Law in Confined Granular Media. Physical Review Letters, 2015, 115, 238301.	2.9	107
26	Particle Shape Effect on Macroscopic Behaviour of Underground Structures: Numerical and Experimental Study. Studia Geotechnica Et Mechanica, 2015, 36, 67-74.	0.2	1
27	Mechanical properties of inclined frictional granular layers. Granular Matter, 2014, 16, 193-201.	1.1	10
28	FEM × DEM modelling of cohesive granular materials: Numerical homogenisation and multi-scale simulations. Acta Geophysica, 2014, 62, 1109-1126.	1.0	60
29	Jamming transition in a two-dimensional open granular pile with rolling resistance. Papers in Physics, 2014, 6, .	0.2	6
30	Pattern formation during capillary rising of a fluid front into a granular media. , 2013, , .		1
31	Mechanical response of an inclined frictional granular layer approaching unjamming. Europhysics Letters, 2013, 101, 44006.	0.7	10
32	TRACKER: A particle image tracking (PIT) technique dedicated to nonsmooth motions involved in granular packings. AIP Conference Proceedings, 2013, , .	0.3	14
33	Non-Gaussian behavior in jamming / unjamming transition in dense granular materials. , 2013, , .		1
34	Experimental evidence of "Granulence". AIP Conference Proceedings, 2013, , .	0.3	10
35	A benchmark for particle shape dependence. , 2013, , .		3
36	Modeling of a cohesive granular materials by a multi-scale approach. AIP Conference Proceedings, 2013, , .	0.3	12

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37	Postmortem analysis of sand grain crushing from pile interface using X-ray tomography. AIP Conference Proceedings, 2013, , .	0.3	8
38	An attempt in assessing contact forces from a kinematic field. , 2013, , .		1
39	An experimental assessment of displacement fluctuations in a 2D granular material subjected to shear. Geotechnique Letters, 2012, 2, 113-118.	0.6	70
40	Particle shape dependence in 2D granular media. Europhysics Letters, 2012, 98, 44008.	0.7	48
41	Experimental and discrete element modeling studies of the trapdoor problem: influence of the macro-mechanical frictional parameters. Acta Geotechnica, 2012, 7, 15-39.	2.9	119
42	Two-scale modeling of granular materials: a DEM-FEM approach. Granular Matter, 2011, 13, 277-281.	1.1	84
43	Polygons vs. clumps of discs: A numerical study of the influence of grain shape on the mechanical behaviour of granular materials. Powder Technology, 2011, 208, 279-288.	2.1	38
44	Investigation of Load-Transfer Mechanisms in Geotechnical Earth Structures with Thin Fill Platforms Reinforced by Rigid Inclusions. International Journal of Geomechanics, 2011, 11, 239-250.	1.3	39
45	Prediction of Load Transfers in Granular Layers Used in Rigid Inclusions Technique—Experimental and Discrete Element Method Analysis. , 2010, , .		6
46	How granular materials deform in quasistatic conditions. AIP Conference Proceedings, 2010, , .	0.3	29
47	A DEM—FEM two scale approach of the behaviour of granular materials. , 2009, , .		3
48	Mechanical behavior of mixtures of circular and rectangular 2D particles. , 2009, , .		6
49	Influence of the grains shape on the mechanical behavior of granular materials. , 2009, , .		8
50	Transitions in the response of a granular layer. , 2009, , .		3
51	Experimental and Numerical Study of the Response of Granular Layer in the Trap-door Problem. , 2009, ,		17
52	Departure from elasticity in granular layers: Investigation of a crossover overload force. Computer Physics Communications, 2009, 180, 612-615.	3.0	20
53	Coupling between finite and discrete element methods for the modelling of earth structures reinforced by geosynthetic. Computers and Geotechnics, 2009, 36, 709-717.	2.3	69
54	Scale Separation in Granular Packings: Stress Plateaus and Fluctuations. Physical Review Letters, 2006, 96, 168001.	2.9	51

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55	Publisher's Note: Scale Separation in Granular Packings: Stress Plateaus and Fluctuations [Phys. Rev. Lett.96, 168001 (2006)]. Physical Review Letters, 2006, 96, .	2.9	1
56	Sensitivity of the stress response function to packing preparation. Journal of Physics Condensed Matter, 2005, 17, S2391-S2403.	0.7	34
57	Discrete numerical simulation, quasistatic deformation and the origins of strain in granular materials. , 2003, , .		8
58	Quasistatic rheology and the origins of strain. Comptes Rendus Physique, 2002, 3, 131-140.	0.3	101
59	Strain versus Stress in a Model Granular Material: A Devil's Staircase. Physical Review Letters, 2000, 85, 3628-3631.	2.9	78
60	Experimental micromechanical analysis of a 2D granular material: relation between structure evolution and loading path. International Journal for Numerical and Analytical Methods in Geomechanics, 1997, 2, 121-163.	1.0	3
61	High compression of granular assemblies of brittle hollow tubular particles: investigation through a 3D discrete element model. Computational Particle Mechanics, 0, , 1.	1.5	0