Niels P Kruyt

List of Publications by Year
in descending order

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26	675	567144 15	552653 26
papers	citations	h-index	g-index

26	26	26	522
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design for High Efficiency of Low-Pressure Axial Fans with Small Hub-to-Tip Diameter Ratio by the Vortex Distribution Method. Journal of Fluids Engineering, Transactions of the ASME, 2022, , .	0.8	1
2	Fabric response to stress probing in granular materials: Two-dimensional, anisotropic systems. Computers and Geotechnics, 2022, 146, 104695.	2.3	3
3	Evolution of fabric anisotropy of granular soils: x-ray tomography measurements and theoretical modelling. Computers and Geotechnics, 2021, 133, 104046.	2.3	25
4	Non-coaxial plastic flow of granular materials through stress probing analysis. International Journal of Solids and Structures, 2021, 222-223, 111015.	1.3	7
5	Particle and Continuum Rotations of Granular Materials: Discrete-Element Method Simulations and Experiment. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	2
6	Capillary bridges between spherical particles under suction control: Rupture distances and capillary forces. Powder Technology, 2020, 360, 622-634.	2.1	17
7	An evolution law for fabric anisotropy and its application in micromechanical modelling of granular materials. International Journal of Solids and Structures, 2020, 196-197, 53-66.	1.3	24
8	Fabric response to strain probing in granular materials: Two-dimensional, isotropic systems. International Journal of Solids and Structures, 2019, 156-157, 251-262.	1.3	6
9	3D DEM simulation of principal stress rotation in different planes of crossâ€anisotropic granular materials. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 2227-2250.	1.7	18
10	A strainâ€“displacementâ€“fabric relationship for granular materials. International Journal of Solids and Structures, 2019, 165, 14-22.	1.3	17
11	Capillary bridges between unequal-sized spherical particles: Rupture distances and capillary forces. Powder Technology, 2019, 346, 462-476.	2.1	16
12	Capillary bridge force between non-perfectly wettable spherical particles: An analytical theory for the pendular regime. Powder Technology, 2018, 339, 827-837.	2.1	15
13	On Hillâ€™s lemma in continuum mechanics. Acta Mechanica, 2017, 228, 1581-1596.	1.1	6
14	An experimental study of forced convective heat transfer from smooth, solid spheres. International Journal of Heat and Mass Transfer, 2017, 109, 1059-1067.	2.5	40
15	A micromechanical study of dilatancy of granular materials. Journal of the Mechanics and Physics of Solids, 2016, 95, 411-427.	2.3	61
16	Macroscopic strains in granular materials accounting for grain rotations. Granular Matter, 2014, 16, 933-944.	1.1	20
17	On micromechanical characteristics of the critical state of two-dimensional granular materials. Acta Mechanica, 2014, 225, 2301-2318.	1.1	48
18	Micromechanical study of elastic moduli of three-dimensional granular assemblies. International Journal of Solids and Structures, 2014, 51, 2336-2344.	1.3	25

#	Article	IF	Citations
19	Micromechanical study of dispersion and damping characteristics of granular materials. Journal of Mechanics of Materials and Structures, 2012, 7, 347-361.	0.4	11
20	Micromechanical study of fabric evolution in quasi-static deformation of granular materials. Mechanics of Materials, 2012, 44, 120-129.	1.7	75
21	Micromechanical study of elastic moduli of loose granular materials. Journal of the Mechanics and Physics of Solids, 2010, 58, 1286-1301.	2.3	42
22	Micromechanical study of plasticity of granular materials. Comptes Rendus - Mecanique, 2010, 338, 596-603.	2.1	32
23	Micro-mechanical analysis of deformation characteristics of three-dimensional granular materials. International Journal of Solids and Structures, 2010, 47, 2234-2245.	1.3	34
24	Micromechanical definition of an entropy for quasi-static deformation of granular materials. Journal of the Mechanics and Physics of Solids, 2009, 57, 634-655.	2.3	11
25	On the elastic moduli of two-dimensional assemblies of disks: Relevance and modeling of fluctuations in particle displacements and rotations. Computers and Mathematics With Applications, 2008, 55, 245-256.	1.4	16
26	Longitudinal and transverse mixing in rotary kilns: A discrete element method approach. Chemical Engineering Science, 2005, 60, 4083-4091.	1.9	103