

Jin Y Ooi

List of Publications by Year in descending order

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papers

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citations

257450

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all docs

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docs citations

44
times ranked

1764
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of rolling resistance models in discrete element simulations. Powder Technology, 2011, 206, 269-282.	4.2	693
2	Scaling of discrete element model parameters for cohesionless and cohesive solid. Powder Technology, 2016, 293, 130-137.	4.2	119
3	Micromechanical analysis of cohesive granular materials using the discrete element method with an adhesive elasto-plastic contact model. Granular Matter, 2014, 16, 383-400.	2.2	115
4	Experiments and simulations of direct shear tests: porosity, contact friction and bulk friction. Granular Matter, 2008, 10, 263-271.	2.2	96
5	DEM study of mechanical characteristics of multi-spherical and superquadric particles at micro and macro scales. Powder Technology, 2018, 329, 288-303.	4.2	94
6	Influence of coarse-graining parameters on the analysis of DEM simulations of silo flow. Powder Technology, 2016, 293, 138-148.	4.2	93
7	Numerical investigation of particle shape and particle friction on limiting bulk friction in direct shear tests and comparison with experiments. Powder Technology, 2011, 212, 231-239.	4.2	92
8	A bond model for DEM simulation of cementitious materials and deformable structures. Granular Matter, 2014, 16, 299-311.	2.2	89
9	Influence of grain shape and intergranular friction on material behavior in uniaxial compression: Experimental and DEM modeling. Powder Technology, 2012, 217, 435-442.	4.2	83
10	Effect of Particle Size and Cohesion on Powder Yielding and Flow. KONA Powder and Particle Journal, 2018, 35, 226-250.	1.7	77
11	An experimentally validated DEM study of powder mixing in a paddle blade mixer. Powder Technology, 2017, 311, 287-302.	4.2	70
12	DEM modeling of cone penetration and unconfined compression in cohesive solids. Powder Technology, 2016, 293, 60-68.	4.2	66
13	An experimental and numerical study of packing, compression, and caking behaviour of detergent powders. Particuology, 2014, 12, 2-12.	3.6	65
14	Effect of particle morphology and contacts on particle breakage in a granular assembly studied using X-ray tomography. Granular Matter, 2019, 21, 1.	2.2	61
15	Numerical Modeling of Silo Filling. I: Continuum Analyses. Journal of Engineering Mechanics - ASCE, 1999, 125, 94-103.	2.9	59
16	Numerical Modeling of Silo Filling. II: Discrete Element Analyses. Journal of Engineering Mechanics - ASCE, 1999, 125, 104-110.	2.9	56
17	A numerical study of wall pressure and granular flow in a flat-bottomed silo. Powder Technology, 2015, 282, 43-54.	4.2	51
18	Numerical investigation of progressive development of granular pile with spherical and non-spherical particles. Mechanics of Materials, 2009, 41, 707-714.	3.2	50

#	ARTICLE	IF	CITATIONS
19	Finite element modelling of wall pressures in a cylindrical silo with conical hopper using an Arbitrary Lagrangian-Eulerian formulation. Powder Technology, 2014, 257, 181-190.	4.2	43
20	DEM investigation of mechanical behavior and strain localization of methane hydrate bearing sediments with different temperatures and water pressures. Engineering Geology, 2017, 223, 92-109.	6.3	42
21	Numerical modelling of dynamic pressure and flow in hopper discharge using the Arbitrary Lagrangian-Eulerian formulation. Engineering Structures, 2013, 56, 1308-1320.	5.3	40
22	An effective sphere-based model for breakage simulation in DEM. Powder Technology, 2021, 392, 473-488.	4.2	29
23	Numerical and experimental study of horizontal pneumatic transportation of spherical and low-aspect-ratio cylindrical particles. Powder Technology, 2016, 293, 48-59.	4.2	28
24	Experimental study of anisotropy and non-coaxiality of granular solids. Granular Matter, 2015, 17, 189-196.	2.2	25
25	The role of deposition process on pressure dip formation underneath a granular pile. Mechanics of Materials, 2013, 66, 160-171.	3.2	22
26	Experimental and Simulation Studies of Dilute Horizontal Pneumatic Conveying. Particulate Science and Technology, 2014, 32, 206-213.	2.1	19
27	Influence of various DEM shape representation methods on packing and shearing of granular assemblies. Granular Matter, 2021, 23, 1.	2.2	19
28	Numerical analysis of silo behavior using non-coaxial models. Chemical Engineering Science, 2011, 66, 1715-1727.	3.8	18
29	Finite element simulation of the pressure dip in sandpiles. International Journal of Solids and Structures, 2013, 50, 981-995.	2.7	18
30	Model driven design for twin screw granulation using mechanistic-based population balance model. International Journal of Pharmaceutics, 2021, 607, 120939.	5.2	17
31	A Study of Granular Flow in a Conical Hopper Discharge Using Discrete and Continuum Approach. Procedia Engineering, 2015, 102, 765-772.	1.2	16
32	Experimental and numerical determination of representative elementary volume for granular plant materials. Granular Matter, 2012, 14, 449-456.	2.2	15
33	Rarefaction wave propagation in tapered granular columns. Chemical Engineering Science, 2012, 71, 32-38.	3.8	15
34	A DEM-PBM multiscale coupling approach for the prediction of an impact pin mill. Powder Technology, 2020, 366, 408-419.	4.2	13
35	Interpretation of Particle Breakage under Compression Using X-ray Computed Tomography and Digital Image Correlation. Procedia Engineering, 2015, 102, 240-248.	1.2	7
36	Establishing predictive capabilities of DEM - Verification and validation for complex granular processes. AIP Conference Proceedings, 2013, , .	0.4	5

#	ARTICLE	IF	CITATIONS
37	Conceptualisation of an Efficient Particle-Based Simulation of a Twin-Screw Granulator. <i>Pharmaceutics</i> , 2021, 13, 2136.	4.5	5
38	Discrete element simulation: challenges in application and model calibration. <i>Granular Matter</i> , 2011, 13, 107-107.	2.2	4
39	DEM simulations of agglomerates impact breakage using Timoshenko beam bond model. <i>Granular Matter</i> , 2022, 24, .	2.2	3
40	Correlation analysis of solid particles' permittivity and composition using electrical capacitance tomography and Maxwell Garnett formula. , 2016, , .		2
41	Correlation of Volume Ratio and Normalized Permittivity in Particle Mixture. <i>IEEE Access</i> , 2017, 5, 15875-15882.	4.2	2
42	Post-processing and visualization of large-scale DEM simulation data with the open-source VLaSSCo platform. <i>Simulation</i> , 2020, 96, 567-581.	1.8	0