

Ke-jun Dong

List of Publications by Year in descending order

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papers

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	A novel method based on orientation discretization for discrete element modeling of non-spherical particles. <i>Chemical Engineering Science</i> , 2015, 126, 500-516.	3.8	116
2	Discrete particle simulation of particle flow and separation on a vibrating screen: Effect of aperture shape. <i>Powder Technology</i> , 2017, 314, 195-202.	4.2	52
3	DEM study of crystallization of monosized spheres under mechanical vibrations. <i>Computer Physics Communications</i> , 2011, 182, 1989-1994.	7.5	49
4	Numerical Investigation of Burden Distribution in a Blast Furnace. <i>Steel Research International</i> , 2015, 86, 651-661.	1.8	44
5	Voronoi analysis of the packings of non-spherical particles. <i>Chemical Engineering Science</i> , 2016, 153, 330-343.	3.8	43
6	Numerical study of vortex eccentricity in a gas cyclone. <i>Applied Mathematical Modelling</i> , 2020, 80, 683-701.	4.2	37
7	Formation mechanism of bulk nanocrystalline aluminium with multiply twinned grains by liquid quenching: A molecular dynamics simulation study. <i>Computational Materials Science</i> , 2015, 99, 256-261.	3.0	33
8	The effect of interparticle cohesion on powder mixing in a ribbon mixer. <i>AIChE Journal</i> , 2016, 62, 1023-1037.	3.6	32
9	Evaluation of contact force models for discrete modelling of ellipsoidal particles. <i>Chemical Engineering Science</i> , 2018, 177, 1-17.	3.8	29
10	Self-assembly of granular spheres under one-dimensional vibration. <i>Soft Matter</i> , 2018, 14, 9856-9869.	2.7	28
11	Aging effects on airflow distribution and micron-particle transport and deposition in a human lung using CFD-DPM approach. <i>Advanced Powder Technology</i> , 2021, 32, 3506-3516.	4.1	25
12	Packing of fine particles in an electrical field. <i>Granular Matter</i> , 2013, 15, 467-476.	2.2	24
13	Effect of pollutant source location on air pollutant dispersion around a high-rise building. <i>Applied Mathematical Modelling</i> , 2020, 81, 582-602.	4.2	24
14	Bimodal self-assembly of granular spheres under vertical vibration. <i>Soft Matter</i> , 2019, 15, 5933-5944.	2.7	23
15	Structural characterization of the packings of granular regular polygons. <i>Physical Review E</i> , 2015, 92, 062203.	2.1	22
16	Particle-scale modelling of fluid velocity distribution near the particles surface in sand filtration. <i>Water Research</i> , 2020, 177, 115758.	11.3	22
17	Numerical investigations on random close packings of cylindrical particles with different aspect ratios. <i>Powder Technology</i> , 2019, 343, 79-86.	4.2	21
18	An accurate geometric contact force model for super-quadric particles. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 360, 112774.	6.6	20

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19	DEM study of segregation degree and velocity of binary granular mixtures subject to vibration. Powder Technology, 2021, 382, 107-117.	4.2	19
20	GaN/Surface-modified graphitic carbon nitride heterojunction: Promising photocatalytic hydrogen evolution materials. International Journal of Hydrogen Energy, 2022, 47, 7202-7213.	7.1	18
21	A revisit of common normal method for discrete modelling of non-spherical particles. Powder Technology, 2018, 326, 1-6.	4.2	17
22	Pore-scale numerical study of intrinsic permeability for fluid flow through asymmetric ceramic microfiltration membranes. Journal of Membrane Science, 2022, 642, 119920.	8.2	17
23	DEM simulation of binary sphere packing densification under vertical vibration. Particulate Science and Technology, 2018, 36, 672-680.	2.1	15
24	Promote cohesive solid flow in a screw feeder with new screw designs. Powder Technology, 2020, 361, 248-257.	4.2	15
25	Numerical study on the effect of the supersaturated vapor on the performance of a gas cyclone. Powder Technology, 2020, 366, 324-336.	4.2	15
26	Experimental and numerical study of a gas cyclone with a central filter. Particuology, 2022, 63, 47-59.	3.6	13
27	DEM study and machine learning model of particle percolation under vibration. Advanced Powder Technology, 2022, 33, 103551.	4.1	12
28	Explicit contact force model for superellipses by Fourier transform and application to superellipse packing. Powder Technology, 2020, 361, 112-123.	4.2	11
29	Enhanced collection of fine particles in a cyclone using ultrasonic vapor with surfactants. Advanced Powder Technology, 2020, 31, 2207-2214.	4.1	11
30	Aerosol Particle Transport and Deposition in Upper and Lower Airways of Infant, Child and Adult Human Lungs. Atmosphere, 2021, 12, 1402.	2.3	11
31	Macro- and microscopic analyses of piles formed by Platonic solids. Chemical Engineering Science, 2019, 205, 391-400.	3.8	10
32	Multiple Heterojunction System of Boron Nitrideâ€Graphene/Black Phosphorene as Highly Efficient Solar Cell. Advanced Theory and Simulations, 2021, 4, 2100169.	2.8	10
33	Bipolar resistive switching characteristics in LaTiO3 nanosheets. RSC Advances, 2014, 4, 18127.	3.6	9
34	Atomic structure evolutions and mechanisms of the crystallization pathway of liquid Al during rapid cooling. RSC Advances, 2021, 11, 39829-39837.	3.6	9
35	Particle scale study on the crystallization of mono-sized cylindrical particles subject to vibration. Powder Technology, 2019, 352, 470-477.	4.2	8
36	Explicit force model for discrete modelling of elliptical particles. Computers and Geotechnics, 2019, 110, 122-131.	4.7	8

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37	Numerical investigation of drag property for fluid flow through random arrays of elliptical cylinders. Powder Technology, 2021, 380, 539-552.	4.2	8
38	Effect of vibration mode on self-assembly of granular spheres under three-dimensional vibration. Powder Technology, 2021, 380, 47-58.	4.2	8
39	DEM simulation of vibrated packing densification of mono-sized regular octahedral particles. Powder Technology, 2021, 384, 29-35.	4.2	8
40	Enhancing the collection efficiency of a gas cyclone with atomization and electrostatic charging. Powder Technology, 2020, 364, 562-571.	4.2	7
41	Particle dispersion in a horizontally vibrating vessel under microgravity. Powder Technology, 2015, 269, 55-65.	4.2	6
42	Experimental study on 3D vibrated packing densification of mono-sized dodecahedral particles. Powder Technology, 2020, 367, 703-712.	4.2	6
43	DEM study of particle segregation in the throat region of a blast furnace. Powder Technology, 2022, 407, 117660.	4.2	6
44	Effect of packing method on packing formation and the correlation between packing density and interparticle force. Particuology, 2020, 48, 170-181.	3.6	5
45	Mixing of Particles in a Rotating Drum with Inclined Axis of Rotation. Processes, 2020, 8, 1688.	2.8	5
46	Size distributions and magic number characteristics of cluster configurations formed during solidification processes of liquid metal Al. Science in China Series D: Earth Sciences, 2006, 49, 172-187.	0.9	4
47	Air impact induced densest amorphous granular materials: Formation, dynamics, and mechanisms. Physical Review B, 2022, 105, .	3.2	4
48	Particle conveying under microgravity in a vibrating vessel. Advanced Powder Technology, 2019, 30, 3163-3170.	4.1	3
49	DEM Study on the Segregation of a Non-Spherical Intruder in a Vibrated Granular Bed. Processes, 2021, 9, 448.	2.8	3
50	Effect of gravity on particle dispersion in a horizontally vibrating bed. , 2013, , .		2
51	Numerical study of the hydraulic tortuosity for fluid flow through elliptical particle packings. Powder Technology, 2022, 398, 117047.	4.2	2
52	Impaction of particle streams on a granular bed. , 2013, , .		1
53	Multiscale Computational Models for Respiratory Aerosol Dynamics with Medical Applications. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-2.	1.3	1
54	A New Interaction Force Model of Gold Nanorods Derived by Molecular Dynamics Simulation. Nanomaterials, 2020, 10, 1293.	4.1	1

#	ARTICLE	IF	CITATIONS
55	CFD-DEM numerical study on air impacted packing densification of equiaxed cylindrical particles. <i>Advanced Powder Technology</i> , 2022, 33, 103641.	4.1	1