

Ke-jun Dong

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical study of a gas cyclone with a central filter. <i>Particuology</i> , 2022, 63, 47-59.	3.6	13
2	Pore-scale numerical study of intrinsic permeability for fluid flow through asymmetric ceramic microfiltration membranes. <i>Journal of Membrane Science</i> , 2022, 642, 119920.	8.2	17
3	Air impact induced densest amorphous granular materials: Formation, dynamics, and mechanisms. <i>Physical Review B</i> , 2022, 105, .	3.2	4
4	Numerical study of the hydraulic tortuosity for fluid flow through elliptical particle packings. <i>Powder Technology</i> , 2022, 398, 117047.	4.2	2
5	GaN/Surface-modified graphitic carbon nitride heterojunction: Promising photocatalytic hydrogen evolution materials. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7202-7213.	7.1	18
6	DEM study and machine learning model of particle percolation under vibration. <i>Advanced Powder Technology</i> , 2022, 33, 103551.	4.1	12
7	CFD-DEM numerical study on air impacted packing densification of equiaxed cylindrical particles. <i>Advanced Powder Technology</i> , 2022, 33, 103641.	4.1	1
8	DEM study of particle segregation in the throat region of a blast furnace. <i>Powder Technology</i> , 2022, 407, 117660.	4.2	6
9	Numerical investigation of drag property for fluid flow through random arrays of elliptical cylinders. <i>Powder Technology</i> , 2021, 380, 539-552.	4.2	8
10	Effect of vibration mode on self-assembly of granular spheres under three-dimensional vibration. <i>Powder Technology</i> , 2021, 380, 47-58.	4.2	8
11	DEM Study on the Segregation of a Non-Spherical Intruder in a Vibrated Granular Bed. <i>Processes</i> , 2021, 9, 448.	2.8	3
12	DEM study of segregation degree and velocity of binary granular mixtures subject to vibration. <i>Powder Technology</i> , 2021, 382, 107-117.	4.2	19
13	DEM simulation of vibrated packing densification of mono-sized regular octahedral particles. <i>Powder Technology</i> , 2021, 384, 29-35.	4.2	8
14	Multiple Heterojunction System of Boron Nitrideâ€¦Graphene/Black Phosphorene as Highly Efficient Solar Cell. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100169.	2.8	10
15	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
16	Aerosol Particle Transport and Deposition in Upper and Lower Airways of Infant, Child and Adult Human Lungs. <i>Atmosphere</i> , 2021, 12, 1402.	2.3	11
17	Atomic structure evolutions and mechanisms of the crystallization pathway of liquid Al during rapid cooling. <i>RSC Advances</i> , 2021, 11, 39829-39837.	3.6	9
18	Effect of packing method on packing formation and the correlation between packing density and interparticle force. <i>Particuology</i> , 2020, 48, 170-181.	3.6	5

#	ARTICLE	IF	CITATIONS
19	Promote cohesive solid flow in a screw feeder with new screw designs. Powder Technology, 2020, 361, 248-257.	4.2	15
20	Explicit contact force model for superellipses by Fourier transform and application to superellipse packing. Powder Technology, 2020, 361, 112-123.	4.2	11
21	An accurate geometric contact force model for super-quadric particles. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112774.	6.6	20
22	Numerical study of vortex eccentricity in a gas cyclone. Applied Mathematical Modelling, 2020, 80, 683-701.	4.2	37
23	A New Interaction Force Model of Gold Nanorods Derived by Molecular Dynamics Simulation. Nanomaterials, 2020, 10, 1293.	4.1	1
24	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
25	Experimental study on 3D vibrated packing densification of mono-sized dodecahedral particles. Powder Technology, 2020, 367, 703-712.	4.2	6
26	Enhanced collection of fine particles in a cyclone using ultrasonic vapor with surfactants. Advanced Powder Technology, 2020, 31, 2207-2214.	4.1	11
27	Effect of pollutant source location on air pollutant dispersion around a high-rise building. Applied Mathematical Modelling, 2020, 81, 582-602.	4.2	24
28	Enhancing the collection efficiency of a gas cyclone with atomization and electrostatic charging. Powder Technology, 2020, 364, 562-571.	4.2	7
29	Particle-scale modelling of fluid velocity distribution near the particles surface in sand filtration. Water Research, 2020, 177, 115758.	11.3	22
30	Mixing of Particles in a Rotating Drum with Inclined Axis of Rotation. Processes, 2020, 8, 1688.	2.8	5
31	Bimodal self-assembly of granular spheres under vertical vibration. Soft Matter, 2019, 15, 5933-5944.	2.7	23
32	Multiscale Computational Models for Respiratory Aerosol Dynamics with Medical Applications. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-2.	1.3	1
33	Particle scale study on the crystallization of mono-sized cylindrical particles subject to vibration. Powder Technology, 2019, 352, 470-477.	4.2	8
34	Macro- and microscopic analyses of piles formed by Platonic solids. Chemical Engineering Science, 2019, 205, 391-400.	3.8	10
35	Explicit force model for discrete modelling of elliptical particles. Computers and Geotechnics, 2019, 110, 122-131.	4.7	8
36	Particle conveying under microgravity in a vibrating vessel. Advanced Powder Technology, 2019, 30, 3163-3170.	4.1	3

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37	Numerical investigations on random close packings of cylindrical particles with different aspect ratios. Powder Technology, 2019, 343, 79-86.	4.2	21
38	DEM simulation of binary sphere packing densification under vertical vibration. Particulate Science and Technology, 2018, 36, 672-680.	2.1	15
39	Evaluation of contact force models for discrete modelling of ellipsoidal particles. Chemical Engineering Science, 2018, 177, 1-17.	3.8	29
40	A revisit of common normal method for discrete modelling of non-spherical particles. Powder Technology, 2018, 326, 1-6.	4.2	17
41	Self-assembly of granular spheres under one-dimensional vibration. Soft Matter, 2018, 14, 9856-9869.	2.7	28
42	Discrete particle simulation of particle flow and separation on a vibrating screen: Effect of aperture shape. Powder Technology, 2017, 314, 195-202.	4.2	52
43	The effect of interparticle cohesion on powder mixing in a ribbon mixer. AIChE Journal, 2016, 62, 1023-1037.	3.6	32
44	Voronoi analysis of the packings of non-spherical particles. Chemical Engineering Science, 2016, 153, 330-343.	3.8	43
45	Structural characterization of the packings of granular regular polygons. Physical Review E, 2015, 92, 062203.	2.1	22
46	Numerical Investigation of Burden Distribution in a Blast Furnace. Steel Research International, 2015, 86, 651-661.	1.8	44
47	Formation mechanism of bulk nanocrystalline aluminium with multiply twinned grains by liquid quenching: A molecular dynamics simulation study. Computational Materials Science, 2015, 99, 256-261.	3.0	33
48	A novel method based on orientation discretization for discrete element modeling of non-spherical particles. Chemical Engineering Science, 2015, 126, 500-516.	3.8	116
49	Particle dispersion in a horizontally vibrating vessel under microgravity. Powder Technology, 2015, 269, 55-65.	4.2	6
50	Bipolar resistive switching characteristics in LaTiO ₃ nanosheets. RSC Advances, 2014, 4, 18127.	3.6	9
51	Packing of fine particles in an electrical field. Granular Matter, 2013, 15, 467-476.	2.2	24
52	Effect of gravity on particle dispersion in a horizontally vibrating bed. , 2013, , .		2
53	Impaction of particle streams on a granular bed. , 2013, , .		1
54	DEM study of crystallization of monosized spheres under mechanical vibrations. Computer Physics Communications, 2011, 182, 1989-1994.	7.5	49

#	ARTICLE	IF	CITATIONS
55	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