

Sheng Chen

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

536
citations

686830

13
h-index

642321

23
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28
all docs

28
docs citations

28
times ranked

315
citing authors

#	ARTICLE	IF	CITATIONS
1	Drag and lift forces acting on linear and irregular agglomerates formed by spherical particles. <i>Physics of Fluids</i> , 2022, 34, .	1.6	11
2	Flow characteristics and packing structures of dense granular flow around an immersed cylindrical tube. <i>Chemical Engineering Science</i> , 2022, 258, 117773.	1.9	4
3	Dynamic characteristics and real-time control of a particle-to-sCO ₂ moving bed heat exchanger assisted by BP neural network. <i>Energy</i> , 2022, 256, 124597.	4.5	5
4	Predicting heat transfer coefficient of a shell-and-plate, moving packed-bed particle-to-sCO ₂ heat exchanger for concentrating solar power. <i>Energy</i> , 2021, 217, 119389.	4.5	30
5	Effect of long-range Coulomb repulsion on adhesive particle agglomeration in homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	10
6	Falling clouds of particles with finite inertia in viscous flows. <i>Physics of Fluids</i> , 2021, 33, .	1.6	7
7	Numerical Analysis on Reduction of Ultrafine Particulate Matter by a Kaolin Additive during Pulverized Coal Combustion. <i>Energy & Fuels</i> , 2021, 35, 9538-9549.	2.5	18
8	Development and numerical investigation of parallel combined sensible-latent heat storage unit with intermittent flow for concentrated solar power plants. <i>Renewable Energy</i> , 2021, 175, 29-43.	4.3	15
9	Particle-resolved simulation on viscous flow past random and ordered arrays of hot ellipsoidal particles. <i>International Journal of Multiphase Flow</i> , 2021, 142, 103736.	1.6	8
10	Structural evolution and breakage of dense agglomerates in shear flow and Taylor-Green vortex. <i>Chemical Engineering Science</i> , 2020, 211, 115261.	1.9	28
11	Collision-induced breakage of agglomerates in homogenous isotropic turbulence laden with adhesive particles. <i>Journal of Fluid Mechanics</i> , 2020, 902, .	1.4	29
12	Unified size-density and size-topology relations in random packings of dry adhesive polydisperse spheres. <i>Physical Review E</i> , 2019, 99, 022901.	0.8	6
13	Random loose packings of polydisperse adhesive microparticles with Gaussian size distribution. <i>Powder Technology</i> , 2019, 357, 64-73.	2.1	0
14	A fast adhesive discrete element method for random packings of fine particles. <i>Chemical Engineering Science</i> , 2019, 193, 336-345.	1.9	58
15	Exponential scaling in early-stage agglomeration of adhesive particles in turbulence. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	45
16	Scaling laws for migrating cloud of low-Reynolds-number particles with Coulomb repulsion. <i>Journal of Fluid Mechanics</i> , 2018, 835, 880-897.	1.4	11
17	Stress anisotropy in shear-jammed packings of frictionless disks. <i>Physical Review E</i> , 2018, 98, .	0.8	22
18	Random adhesive loose packings of micron-sized particles under a uniform flow field. <i>Powder Technology</i> , 2018, 335, 70-76.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Equation of state for random sphere packings with arbitrary adhesion and friction. <i>Soft Matter</i> , 2017, 13, 421-427.	1.2	34
20	Contact forces between a particle and a wet wall at both quasi-static and dynamic state. <i>EPJ Web of Conferences</i> , 2017, 140, 09010.	0.1	0
21	Influence of adhesion on random loose packings of binary microparticle mixtures. <i>AICHE Journal</i> , 2017, 63, 4296-4306.	1.8	14
22	Effects of hydrodynamic interaction on random adhesive loose packings of micron-sized particles. <i>EPJ Web of Conferences</i> , 2017, 140, 08017.	0.1	1
23	Evolution of Clouds of Migrating Micro-particles with Hydrodynamic and Electrostatic Interactions. <i>EPJ Web of Conferences</i> , 2017, 140, 09004.	0.1	1
24	DEM Simulation of Random Loose Packings of Micron-Sized Particles with Both Adhesion and Friction. <i>Springer Proceedings in Physics</i> , 2017, , 515-524.	0.1	1
25	Effect of long-range electrostatic repulsion on pore clogging during microfiltration. <i>Physical Review E</i> , 2016, 94, 063108.	0.8	35
26	Computer simulation of random loose packings of micro-particles in presence of adhesion and friction. <i>Powder Technology</i> , 2016, 302, 414-422.	2.1	35
27	Effect of long-range repulsive Coulomb interactions on packing structure of adhesive particles. <i>Soft Matter</i> , 2016, 12, 1836-1846.	1.2	40
28	Sticking/rebound criterion for collisions of small adhesive particles: Effects of impact parameter and particle size. <i>Powder Technology</i> , 2015, 274, 431-440.	2.1	59