

Chuanping Liu

List of Publications by Year in descending order

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45
papers

576
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687363

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all docs

45
docs citations

45
times ranked

425
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal energy storage: Challenges and the role of particle technology. <i>Particuology</i> , 2014, 15, 2-8.	3.6	69
2	Form-stable LiNO ₃ / NaNO ₃ / KNO ₃ / Ca(NO ₃) ₂ / calcium silicate composite phase change material (PCM) for mid-low temperature thermal energy storage. <i>Energy Conversion and Management</i> , 2015, 106, 165-172.	9.2	63
3	MgO based composite phase change materials for thermal energy storage: The effects of MgO particle density and size on microstructural characteristics as well as thermophysical and mechanical properties. <i>Applied Energy</i> , 2019, 250, 81-91.	10.1	51
4	Patterns of convective flow in a vertically vibrated granular bed. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1303-1308.	2.1	37
5	Convecting particle diffusion in a binary particle system under vertical vibration. <i>Soft Matter</i> , 2014, 10, 4348-4359.	2.7	25
6	Particle climbing along a vibrating tube: a vibrating tube that acts as a pump for lifting granular materials from a silo. <i>Soft Matter</i> , 2013, 9, 4762.	2.7	24
7	Experimental study on drying characteristics of wheat by low-field nuclear magnetic resonance. <i>Drying Technology</i> , 2017, 35, 1258-1265.	3.1	24
8	Effects of Gas Flow on Granular Size Separation. <i>Physical Review Letters</i> , 2010, 104, 188001.	7.8	21
9	Particle climbing induced by reciprocating air flow. <i>Applied Physics Letters</i> , 2013, 102, 183507.	3.3	16
10	Moisture transformation and transport during the drying process for Radix Paeoniae Alba slices. <i>Applied Thermal Engineering</i> , 2017, 110, 25-31.	6.0	16
11	Thermal diffusion response to gas-liquid slug flow and its application in measurement. <i>International Journal of Heat and Mass Transfer</i> , 2020, 159, 120065.	4.8	16
12	Experimental Study on the Entrainment Characteristics of Ultrafine Powder in a Fluidized Bed with Vibrator and Agitator. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1359-1364.	3.7	14
13	Effect of hoisting tube shape on particle climbing. <i>Powder Technology</i> , 2014, 259, 137-143.	4.2	14
14	Size distribution in gas vibration bed and its application on grain drying. <i>Powder Technology</i> , 2012, 221, 192-198.	4.2	12
15	Particulate flow characteristics in a novel moving granular bed. <i>Powder Technology</i> , 2018, 340, 217-226.	4.2	12
16	Granular core phenomenon induced by convection in a vertically vibrated cylindrical container. <i>Physical Review E</i> , 2016, 94, 032906.	2.1	11
17	Adhesion and desorption characteristics of high-temperature condensed flue gas dust on filter material surface. <i>Powder Technology</i> , 2019, 354, 760-764.	4.2	10
18	Prediction of Gas-Liquid Two-phase Flow Rates through a Vertical Pipe Based on Thermal Diffusion. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2686-2697.	3.7	10

#	ARTICLE	IF	CITATIONS
19	Behaviour of a binary particle system under the effects of simultaneous vertical vibration and rotation. <i>Soft Matter</i> , 2013, 9, 5074.	2.7	9
20	Low-field nuclear magnetic resonance for the determination of water diffusion characteristics and activation energy of wheat drying. <i>Drying Technology</i> , 2020, 38, 917-927.	3.1	9
21	Flow stratification characteristics of binary particles in a moving granular bed. <i>Powder Technology</i> , 2020, 374, 482-491.	4.2	9
22	Experimental study on filtration performance of a sliding granular bed filter. <i>Fuel</i> , 2020, 268, 117374.	6.4	9
23	Effect of movement direction on resistance force in granular media. <i>Powder Technology</i> , 2019, 344, 545-550.	4.2	8
24	Distribution of dissipated energy in a multi-size granular system under vertical vibration. <i>Powder Technology</i> , 2014, 260, 1-6.	4.2	7
25	Behaviors of spherical intruder in 3-D vertically vibrating granular system with vertical longitudinal air pressure wave. <i>Powder Technology</i> , 2015, 283, 266-285.	4.2	7
26	Response of thermal diffusion to gas-liquid stratified/wave flow and its application in measurement. <i>Chemical Engineering Science</i> , 2020, 225, 115789.	3.8	7
27	Temperature fluctuation on pipe wall induced by gas-liquid flow and its application in flow pattern identification. <i>Chemical Engineering Science</i> , 2021, 237, 116568.	3.8	7
28	Experimental study on filtration characteristics of a novel moving granular bed filter. <i>Separation and Purification Technology</i> , 2021, 267, 118624.	7.9	7
29	Experimental study on filtering mixed solid-liquid dust with a sliding granular bed filter. <i>Particology</i> , 2021, 58, 16-25.	3.6	7
30	Forces on a cylinder intruder associating rotation and plugging/pulling. <i>Powder Technology</i> , 2017, 322, 41-46.	4.2	6
31	Effects of vibration parameters and pipe insertion depth on the motion of particles induced by vertical vibration. <i>Powder Technology</i> , 2018, 333, 421-428.	4.2	6
32	Discharge of granular materials in a hemispherical bottom silo under vertical vibration. <i>Powder Technology</i> , 2020, 372, 128-135.	4.2	6
33	Entrainment characteristics of fine particles in fluidized bed under preheating conditions. <i>Powder Technology</i> , 2016, 299, 150-155.	4.2	5
34	Experiment on and simulation of moisture transfer and rolling deformation during leaf drying. <i>Drying Technology</i> , 2018, 36, 1653-1661.	3.1	4
35	Sealing pipe top enhancing transportation of particulate solids inside a vertically vibrating pipe. <i>Powder Technology</i> , 2019, 343, 383-391.	4.2	3
36	Experimental and simulation study on shrinkage of <i>Radix Paeoniae Alba</i> slices during drying process. <i>Drying Technology</i> , 2022, 40, 1994-2005.	3.1	3

#	ARTICLE	IF	CITATIONS
37	Rolling deformation characteristics of Chinese eaglewood leaf during drying and rehydration. Applied Thermal Engineering, 2017, 120, 340-346.	6.0	2
38	Drying and deformation characteristics of Chinese eaglewood leaves in restricted spaces. Journal of Food Processing and Preservation, 2018, 42, e13697.	2.0	2
39	Dust distribution of solid and adhesive mixed dust in a granular bed filter. Particuology, 2022, 67, 1-7.	3.6	2
40	Relationship between heat/mass transfer and ingredient degradation during drying process. Journal of Food Process Engineering, 0, , .	2.9	2
41	Relationship between heat/mass transfer and color change during drying process. Journal of Food Measurement and Characterization, 2022, 16, 4151-4160.	3.2	2
42	Size separation of binary mixture under vibration. AIP Conference Proceedings, 2013, , .	0.4	1
43	Effects of vibrations on tilted silo discharge. Chemical Engineering Research and Design, 2021, 171, 247-253.	5.6	1
44	Patterns of granular convection and separation in narrow vibration bed. EPJ Web of Conferences, 2017, 140, 03031.	0.3	0
45	Entrainment characteristics of fine particles under high speed airflow. EPJ Web of Conferences, 2017, 140, 09043.	0.3	0