

Christopher Windows-Yule

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

590
citations

567144

15
h-index

610775

24
g-index

31
all docs

31
docs citations

31
times ranked

302
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Packing Density on the Segregative Behaviors of Granular Systems. <i>Physical Review Letters</i> , 2014, 112, 098001.	2.9	48
2	Understanding and exploiting competing segregation mechanisms in horizontally rotated granular media. <i>New Journal of Physics</i> , 2016, 18, 023013.	1.2	47
3	Positron Emission Particle Tracking of Granular Flows. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 367-396.	3.3	42
4	Thermal Convection and Temperature Inhomogeneity in a Vibrofluidized Granular Bed: The Influence of Sidewall Dissipation. <i>Physical Review Letters</i> , 2013, 111, 038001.	2.9	34
5	Numerical modelling of granular flows: a reality check. <i>Computational Particle Mechanics</i> , 2016, 3, 311-332.	1.5	32
6	Positron emission particle tracking using machine learning. <i>Review of Scientific Instruments</i> , 2020, 91, 013329.	0.6	32
7	Resonance effects on the dynamics of dense granular beds: achieving optimal energy transfer in vibrated granular systems. <i>New Journal of Physics</i> , 2015, 17, 023015.	1.2	26
8	Boltzmann statistics in a three-dimensional vibrofluidized granular bed: Idealizing the experimental system. <i>Physical Review E</i> , 2013, 87, 022211.	0.8	25
9	Low-frequency oscillations and convective phenomena in a density-inverted vibrofluidized granular system. <i>Physical Review E</i> , 2014, 90, 062205.	0.8	25
10	Recent advances in positron emission particle tracking: a comparative review. <i>Reports on Progress in Physics</i> , 2022, 85, 016101.	8.1	24
11	Self-diffusion, local clustering and global segregation in binary granular systems: The role of system geometry. <i>Powder Technology</i> , 2014, 261, 133-142.	2.1	22
12	Competition between geometrically induced and density-driven segregation mechanisms in vibrofluidized granular systems. <i>Physical Review E</i> , 2015, 91, 032205.	0.8	22
13	Influence of thermal convection on density segregation in a vibrated binary granular system. <i>Physical Review E</i> , 2014, 89, 022202.	0.8	18
14	Forced axial segregation in axially inhomogeneous rotating systems. <i>Physical Review E</i> , 2015, 92, 022202.	0.8	17
15	Influence of initial conditions on granular dynamics near the jamming transition. <i>New Journal of Physics</i> , 2014, 16, 063016.	1.2	16
16	Coffee bean particle motion in a spouted bed measured using Positron Emission Particle Tracking (PEPT). <i>Journal of Food Engineering</i> , 2021, 311, 110709.	2.7	16
17	Inelasticity-induced segregation: Why it matters, when it matters. <i>Europhysics Letters</i> , 2014, 106, 64003.	0.7	14
18	Modifying self-assembly and species separation in three-dimensional systems of shape-anisotropic particles. <i>Physical Review E</i> , 2016, 93, 020901.	0.8	14

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19	New Insight into Pseudo-Thermal Convection in Vibrofluidised Granular Systems. Scientific Reports, 2018, 8, 12859.	1.6	14
20	Convection and segregation in fluidised granular systems exposed to two-dimensional vibration. New Journal of Physics, 2016, 18, 033005.	1.2	13
21	Monte Carlo model validation of a detector system used for Positron Emission Particle Tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 993, 165073.	0.7	12
22	Center of mass scaling in three-dimensional binary granular systems. Physical Review E, 2014, 89, 062206.	0.8	11
23	Maximizing energy transfer in vibrofluidized granular systems. Physical Review E, 2015, 91, 052203.	0.8	11
24	Janssen effect in dynamic particulate systems. Physical Review E, 2019, 100, 022902.	0.8	11
25	The role of rotational inertia in the dynamics of vibrofluidised granular gases. Europhysics Letters, 2014, 108, 58006.	0.7	10
26	Do granular systems obey statistical mechanics? A review of recent work assessing the applicability of equilibrium theory to vibrationally excited granular media. International Journal of Modern Physics B, 2017, 31, 1742010.	1.0	9
27	Impact on granular bed: validation of discrete element modeling results by means of two-dimensional finite element analysis. Granular Matter, 2020, 22, 1.	1.1	9
28	Energy non-equipartition in strongly convective granular systems. European Physical Journal E, 2014, 37, 17.	0.7	6
29	Positron Emission Particle Tracking for Liquid-Solid Mixing in Stirred Tanks. Chemical Engineering and Technology, 2020, 43, 1939-1950.	0.9	5
30	Energy decay in a tapped granular column: Can a one-dimensional toy model provide insight into fully three-dimensional systems?. Physical Review E, 2017, 96, 042902.	0.8	3
31	Impact in granular matter: Force at the base of a container made with one movable wall. Physical Review E, 2020, 102, 012903.	0.8	2