

Luis A Pugnaroni

List of Publications by Year in descending order

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236912
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87
all docs

87
docs citations

87
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	Proppant transport in scaled experiments: Effect of drainage configuration and fracture wall roughness. Journal of Petroleum Science and Engineering, 2022, 208, 109433.	4.2	8
2	On the use of magnetic particles to enhance the flow of vibrated grains through narrow apertures. Granular Matter, 2022, 24, 1.	2.2	1
3	Universal features of the stick-slip dynamics of an intruder moving through a confined granular medium. Physical Review E, 2022, 105, L042902.	2.1	2
4	Effect of the granular material on the maximum holding force of a granular gripper. Granular Matter, 2021, 23, 1.	2.2	12
5	Enhancement of the flow of vibrated grains through narrow apertures by addition of small particles. Physical Review E, 2021, 103, L030901.	2.1	5
6	Effect of lateral confinement on the apparent mass of granular dampers. Granular Matter, 2021, 23, 1.	2.2	4
7	Proppant transport in a planar fracture: Particle image velocimetry. Journal of Natural Gas Science and Engineering, 2021, 89, 103860.	4.4	15
8	Stability and conductivity of proppant packs during flowback in unconventional reservoirs: A CFD-DEM simulation study. Journal of Petroleum Science and Engineering, 2021, 201, 108381.	4.2	9
9	Two Approaches to Quantification of Force Networks in Particulate Systems. Journal of Engineering Mechanics - ASCE, 2021, 147, 04021100.	2.9	2
10	Avoiding chaos in granular dampers. EPJ Web of Conferences, 2021, 249, 15003.	0.3	2
11	Pedestrian dynamics at the running of the bulls evidence an inaccessible region in the fundamental diagram. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
12	Differential equation for the flow rate of discharging silos based on energy balance. Physical Review E, 2020, 101, 052905.	2.1	17
13	Intruder in a two-dimensional granular system: Effects of dynamic and static basal friction on stick-slip and clogging dynamics. Physical Review E, 2020, 101, 012909.	2.1	14
14	Velocity profiles in forced silo discharges. Granular Matter, 2019, 21, 1.	2.2	6
15	Dynamics of a grain-scale intruder in a two-dimensional granular medium with and without basal friction. Physical Review E, 2019, 100, 032905.	2.1	14
16	Proppant transport in a scaled vertical planar fracture: Vorticity and dune placement. Journal of Petroleum Science and Engineering, 2019, 173, 1382-1389.	4.2	33
17	Clogging in two-dimensions: effect of particle shape. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 113201.	2.3	21
18	Numerical simulation of proppant transport in a planar fracture. A study of perforation placement and injection strategy. International Journal of Multiphase Flow, 2018, 109, 207-218.	3.4	46

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19	Forced flow of granular media: Breakdown of the Beverloo scaling. Europhysics Letters, 2018, 123, 14004.	2.0	15
20	Apparent mass during silo discharge: Nonlinear effects related to filling protocols. Powder Technology, 2017, 311, 265-272.	4.2	11
21	A differential equation for the flow rate during silo discharge: Beyond the Beverloo rule. EPJ Web of Conferences, 2017, 140, 03041.	0.3	5
22	Effect of grain shape on the jamming of two-dimensional silos. EPJ Web of Conferences, 2017, 140, 06009.	0.3	2
23	Structure of force networks in tapped particulate systems of disks and pentagons. I. Clusters and loops. Physical Review E, 2016, 93, 062902.	2.1	26
24	Structure of force networks in tapped particulate systems of disks and pentagons. II. Persistence analysis. Physical Review E, 2016, 93, 062903.	2.1	19
25	Dynamic transition in conveyor belt driven granular flow. Powder Technology, 2015, 272, 290-294.	4.2	17
26	Arch-based configurations in the volume ensemble of static granular systems. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P02005.	2.3	4
27	Relevance of system size to the steady-state properties of tapped granular systems. Physical Review E, 2015, 91, 032207.	2.1	5
28	Wang-Landau algorithm for entropic sampling of arch-based microstates in the volume ensemble of static granular packings. Papers in Physics, 2015, 7, .	0.2	1
29	First-order phase transition during displacement of amphiphilic biomacromolecules from interfaces by surfactant molecules. Journal of Physics Condensed Matter, 2014, 26, 464109.	1.8	5
30	Arching during the segregation of two-dimensional tapped granular systems: Mixtures versus intruders. European Physical Journal E, 2014, 37, 117.	1.6	5
31	On-and-off dynamics of a creeping frictional system. European Physical Journal E, 2014, 37, 112.	1.6	12
32	Effect of particle shape and fragmentation on the response of particle dampers. JVC/Journal of Vibration and Control, 2014, 20, 1846-1854.	2.6	26
33	Clogging transition of many-particle systems flowing through bottlenecks. Scientific Reports, 2014, 4, 7324.	3.3	237
34	Tapped granular packings described as complex networks. Philosophical Magazine, 2013, 93, 4078-4089.	1.6	4
35	Contact network topology in tapped granular media. Physical Review E, 2013, 87, 022203.	2.1	23
36	Exact predictions from the Edwards ensemble versus realistic simulations of tapped narrow two-dimensional granular columns. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P12012.	2.3	12

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37	“Faster Is Slower” Effect in Granular Flows. , 2013, , 317-324.		6
38	Universal response of optimal granular damping devices. Journal of Sound and Vibration, 2012, 331, 4389-4394.	3.9	61
39	The effect of the packing fraction on the jamming of granular flow through small apertures. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P04008.	2.3	15
40	Evolution of pressure profiles during the discharge of a silo. Physical Review E, 2012, 85, 021303.	2.1	39
41	Arches and contact forces in a granular pile. European Physical Journal E, 2012, 35, 44.	1.6	25
42	Effective mass overshoot in single degree of freedom mechanical systems with a particle damper. Journal of Sound and Vibration, 2011, 330, 5812-5819.	3.9	39
43	Steady state of tapped granular polygons. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P01007.	2.3	18
44	Creep motion of a model frictional system. Physical Review E, 2011, 84, 061303.	2.1	9
45	Granular flow through an aperture: Pressure and flow rate are independent. Physical Review E, 2011, 83, 061305.	2.1	33
46	Shape of jamming arches in two-dimensional deposits of granular materials. Physical Review E, 2010, 82, 031306.	2.1	69
47	Pressure Independence of Granular Flow through an Aperture. Physical Review Letters, 2010, 104, 238002.	7.8	66
48	Towards a relevant set of state variables to describe static granular packings. Physical Review E, 2010, 82, 050301.	2.1	39
49	Role of vibrations in the jamming and unjamming of grains discharging from a silo. Physical Review E, 2009, 80, 011309.	2.1	82
50	Compaction and arching in tapped pentagon deposits. Granular Matter, 2009, 11, 53-61.	2.2	10
51	Simple model for wet granular beds subjected to tapping. Granular Matter, 2009, 11, 371-378.	2.2	7
52	High intensity tapping regime in a frustrated lattice gas model of granular compaction. Granular Matter, 2009, 11, 365-369.	2.2	12
53	Application of probe tensile method for quantitative characterisation of the stickiness of fluid foods. Journal of Food Engineering, 2008, 87, 281-290.	5.2	23
54	Continuum percolation of long lifespan clusters in a simple fluid. Journal of Chemical Physics, 2008, 129, 064510.	3.0	5

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55	Jamming and critical outlet size in the discharge of a two-dimensional silo. Europhysics Letters, 2008, 84, 44002.	2.0	140
56	Pentagon deposits unpack under gentle tapping. Physical Review E, 2008, 77, 051305.	2.1	9
57	Nonmonotonic reversible branch in four model granular beds subjected to vertical vibration. Physical Review E, 2008, 78, 051305.	2.1	34
58	Identification of arches in two-dimensional granular packings. Physical Review E, 2006, 74, 021303.	2.1	47
59	Surface topography of heat-set whey protein gels by confocal laser scanning microscopy. Food Hydrocolloids, 2006, 20, 468-474.	10.7	24
60	Cluster pair correlation function of simple fluids: Energetic connectivity criteria. Journal of Chemical Physics, 2006, 125, 194512.	3.0	4
61	Arching in tapped deposits of hard disks. Physical Review E, 2006, 73, 051302.	2.1	26
62	Brownian dynamics simulation of adsorbed layers of interacting particles subjected to large extensional deformation. Journal of Colloid and Interface Science, 2005, 287, 401-414.	9.4	29
63	Microstructure of acid-induced caseinate gels containing sucrose: Quantification from confocal microscopy and image analysis. Colloids and Surfaces B: Biointerfaces, 2005, 42, 211-217.	5.0	69
64	Percolation of clusters with a residence time in the bond definition: Integral equation theory. Physical Review E, 2005, 71, 031202.	2.1	7
65	Jamming during the discharge of granular matter from a silo. Physical Review E, 2005, 71, 051303.	2.1	229
66	Surface phase separation in complex mixed adsorbing systems: An interface-bulk coupling effect. Journal of Chemical Physics, 2004, 121, 3775-3783.	3.0	5
67	Structure and distribution of arches in shaken hard sphere deposits. Physica A: Statistical Mechanics and Its Applications, 2004, 337, 428-442.	2.6	40
68	Competitive adsorption of proteins and low-molecular-weight surfactants: computer simulation and microscopic imaging. Advances in Colloid and Interface Science, 2004, 107, 27-49.	14.7	176
69	Computer Simulation of the Microstructure of a Nanoparticle Monolayer Formed under Interfacial Compression. Langmuir, 2004, 20, 6096-6099.	3.5	21
70	Continuum percolation of simple fluids: energetic connectivity criteria. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 398-410.	2.6	5
71	Growth and aggregation of surfactant islands during the displacement of an adsorbed protein monolayer: a Brownian dynamics simulation study. Colloids and Surfaces B: Biointerfaces, 2003, 31, 149-157.	5.0	21
72	Competitive adsorption of proteins and low-molecular-weight surfactants: computer simulation and microscopic imaging. Advances in Colloid and Interface Science, 2003, 107, 27-27.	14.7	0

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73	Do Mixtures of Proteins Phase Separate at Interfaces?. Langmuir, 2003, 19, 1923-1926.	3.5	18
74	Growth of Surfactant Domains in Protein Films. Langmuir, 2003, 19, 6032-6038.	3.5	49
75	Jamming during the discharge of grains from a silo described as a percolating transition. Physical Review E, 2003, 68, 030301.	2.1	126
76	Multi-Particle Structures in Non-Sequentially Reorganized Hard Sphere Deposits. , 2003, , 1-9.		0
77	New criteria for cluster identification in continuum systems. Journal of Chemical Physics, 2002, 116, 1097-1108.	3.0	28
78	MULTI-PARTICLE STRUCTURES IN NON-SEQUENTIALLY REORGANIZED HARD SPHERE DEPOSITS. International Journal of Modeling, Simulation, and Scientific Computing, 2001, 04, 289-297.	1.4	35
79	Density expansion for particle-particle correlations in time-dependent physical clusters. Physical Review E, 2000, 61, R6067-R6070.	2.1	7
80	Contact correlations of charged fermions in two dimensions and the electron-hole plasma lifetime in semiconductor quantum wells. Journal of Physics Condensed Matter, 1999, 11, 2607-2617.	1.8	1
81	Clustering and continuum percolation of hard spheres near a hard wall: Monte Carlo simulation and connectedness theory. Journal of Chemical Physics, 1999, 110, 4028-4034.	3.0	5
82	Comment on "Exact solution of a one-dimensional continuum percolation model". Physical Review E, 1997, 56, 6206-6207.	2.1	3
83	Chapter 16. Theoretical Study of Phase Transition Behaviour in Mixed Biopolymer + Surfactant Interfacial Layers Using the Self-Consistent-Field Approach. , 0, , 245-256.		1
84	Master curves for the stress tensor invariants in stationary states of static granular beds. Implications for the thermodynamic phase space. Papers in Physics, 0, 3, 030004.	0.2	14
85	Flow rate of polygonal grains through a bottleneck: Interplay between shape and size. Papers in Physics, 0, 7, 070016.	0.2	13
86	Ergodic-nonergodic transition in tapped granular systems: The role of persistent contacts. Papers in Physics, 0, 8, 080001.	0.2	6
87	Computer simulation of interfacial structure and large-deformation rheology during competitive adsorption of proteins and surfactants. Special Publication - Royal Society of Chemistry, 0, , 131-142.	0.0	0