

Renaud Delannay

List of Publications by Year in descending order

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55
papers

1,689
citations

279487

23
h-index

276539

41
g-index

55
all docs

55
docs citations

55
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle segregation in inclined high-speed granular flows. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	1.4	1
2	Granular surface flows confined between flat, frictional walls. Part 1. Kinematics. <i>Journal of Fluid Mechanics</i> , 2022, 940, .	1.4	2
3	Sidewall friction in confined surface flows of granular materials. <i>EPJ Web of Conferences</i> , 2021, 249, 03024.	0.1	0
4	Experimental assessment of the effective friction at the base of granular chute flows on a smooth incline. <i>Physical Review E</i> , 2021, 103, 042905.	0.8	13
5	Effect of dissipation in rapid-gravitational granular flows. <i>EPJ Web of Conferences</i> , 2021, 249, 03046.	0.1	0
6	Robust experimental study of avalanche precursory events based on reproducible cycles of grain packing destabilizations. <i>EPJ Web of Conferences</i> , 2021, 249, 03023.	0.1	1
7	High-speed confined granular flows down smooth inclines: scaling and wall friction laws. <i>Granular Matter</i> , 2020, 22, 1.	1.1	13
8	Influence of lateral confinement on granular flows: comparison between shear-driven and gravity-driven flows. <i>Granular Matter</i> , 2020, 22, 1.	1.1	8
9	Dynamic behavior of humid granular avalanches: Optical measurements to characterize the precursor activity. <i>Physical Review E</i> , 2020, 101, 022902.	0.8	5
10	Compressibility regularizes the $\mu(I)$ -rheology for dense granular flows. <i>Journal of Fluid Mechanics</i> , 2017, 830, 553-568.	1.4	39
11	Confined granular flows on a heap: from simulations to experiments. <i>EPJ Web of Conferences</i> , 2017, 140, 03067.	0.1	0
12	High speed confined granular flows down inclined: numerical simulations. <i>EPJ Web of Conferences</i> , 2017, 140, 03081.	0.1	4
13	Experimental investigation of high speed granular flows down inclines. <i>EPJ Web of Conferences</i> , 2017, 140, 03057.	0.1	6
14	Effective Thermal Conductivity of a Wet Porous Medium – Presence of Hysteresis When Modeling the Spatial Water Distribution for the Pendular Regime. <i>Journal of Heat Transfer</i> , 2016, 138, .	1.2	1
15	New patterns in high-speed granular flows. <i>Journal of Fluid Mechanics</i> , 2015, 769, 218-228.	1.4	48
16	Granular flows on a dissipative base. <i>Physical Review E</i> , 2015, 92, 022204.	0.8	9
17	Precursors and triggering mechanisms of granular avalanches. <i>Comptes Rendus Physique</i> , 2015, 16, 45-50.	0.3	6
18	Using Surface Evolver to measure pressures and energies of real 2D foams submitted to quasi-static deformations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 468, 193-200.	2.3	5

#	ARTICLE	IF	CITATIONS
19	Shallow granular flows down flat frictional channels: Steady flows and longitudinal vortices. <i>Physical Review E</i> , 2013, 87, 022202.	0.8	47
20	Dynamics of rearrangements during inclination of granular packings: the avalanche precursor regime. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P04013.	0.9	18
21	Experimental link of coarsening rate and volume distribution in dry foam. <i>Europhysics Letters</i> , 2012, 99, 48003.	0.7	3
22	Coupling heat conduction and water–steam flow in a saturated porous medium. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 85, 1390-1414.	1.5	7
23	Rheology of confined granular flows. , 2010, , .		2
24	Experimental evidence of ageing and slow restoration of the weak-contact configuration in tilted 3D granular packings. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P11023.	0.9	22
25	Electrically induced tunable cohesion in granular systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P08003.	0.9	8
26	Coarsening Foams Robustly Reach a Self-Similar Growth Regime. <i>Physical Review Letters</i> , 2010, 104, 248304.	2.9	60
27	Overlapping Histogram method for testing Edward’s Statistical Mechanics of Powders. , 2009, , .		0
28	Measurement of granular entropy. <i>Physical Review E</i> , 2009, 80, 031301.	0.8	48
29	Heterogeneous dynamics of a granular pack under vertical tapping. <i>Europhysics Letters</i> , 2009, 85, 58004.	0.7	11
30	The effect of sidewall friction on dense granular flows. <i>Computers and Mathematics With Applications</i> , 2008, 55, 230-234.	1.4	23
31	Pre-avalanche structural rearrangements in the bulk of granular medium: Experimental evidence. <i>Europhysics Letters</i> , 2008, 83, 64003.	0.7	38
32	Rheology of Confined Granular Flows: Scale Invariance, Glass Transition, and Friction Weakening. <i>Physical Review Letters</i> , 2008, 101, 248002.	2.9	75
33	The fixed-trace $\hat{\Gamma}^2$ -Hermite ensemble of random matrices and the low temperature distribution of the determinant of an $N \times N$ -Hermite matrix. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 1561-1584.	0.7	11
34	Experimental Growth Law for Bubbles in a Moderately Wet 3D Liquid Foam. <i>Physical Review Letters</i> , 2007, 99, 058304.	2.9	63
35	Nearest-neighbour spacing distributions of the $\hat{\Gamma}^2$ -Hermite ensemble of random matrices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 190-208.	1.2	24
36	Towards a theoretical picture of dense granular flows down inclines. <i>Nature Materials</i> , 2007, 6, 99-108.	13.3	96

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37	Experimental study of two-dimensional, monodisperse, frictional-collisional granular flows down an inclined chute. <i>Physics of Fluids</i> , 2006, 18, 123302.	1.6	30
38	Extraction of relevant physical parameters from 3D images of foams obtained by X-ray tomography. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 263, 295-302.	2.3	61
39	Slow relaxation and compaction of granular systems. <i>Nature Materials</i> , 2005, 4, 121-128.	13.3	351
40	Two- and three-dimensional confined granular chute flows: experimental and numerical results. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S2457-S2480.	0.7	30
41	Slow compaction of granular systems. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S2743-S2754.	0.7	18
42	Effect of Rare Events on Out-of-Equilibrium Relaxation. <i>Physical Review Letters</i> , 2005, 95, 268001.	2.9	23
43	Importance of convection in the compaction mechanisms of anisotropic granular media. <i>Physical Review E</i> , 2005, 71, 011304.	0.8	24
44	In Situ Investigations on Organic Foam Films Using Neutron and Synchrotron Radiation. <i>Langmuir</i> , 2005, 21, 2229-2234.	1.6	27
45	Dissipation in foam flowing through narrow channels. <i>Europhysics Letters</i> , 2004, 65, 726-732.	0.7	85
46	The growth of a Super Stable Heap: An experimental and numerical study. <i>Europhysics Letters</i> , 2004, 68, 515-521.	0.7	28
47	Superstable Granular Heap in a Thin Channel. <i>Physical Review Letters</i> , 2003, 91, 264301.	2.9	151
48	Two-dimensional inclined chute flows: Transverse motion and segregation. <i>Physical Review E</i> , 2003, 68, 051303.	0.8	25
49	The distributions of the determinant of fixed-trace ensembles of real-symmetric and of Hermitian random matrices. <i>Journal of Physics A</i> , 2003, 36, 9885-9898.	1.6	4
50	Rotational modes in a 1D array of cylinders under shear stress. <i>Europhysics Letters</i> , 2000, 50, 587-593.	0.7	1
51	Distribution of the determinant of a random real-symmetric matrix from the Gaussian orthogonal ensemble. <i>Physical Review E</i> , 2000, 62, 1526-1536.	0.8	31
52	Some consequences of exchangeability in random-matrix theory. <i>Physical Review E</i> , 1999, 59, 6281-6285.	0.8	13
53	Dispersion in periodic porous media. Experience versus theory for two-dimensional systems. <i>Chemical Engineering Science</i> , 1997, 52, 1861-1874.	1.9	25
54	Topological Characteristics of 2D Cellular Structures Generated by Fragmentation. <i>Physical Review Letters</i> , 1994, 73, 1553-1556.	2.9	42

#	ARTICLE	IF	CITATIONS
55	Exact two-cell correlations in random cellular structures generated from a 2D Ising ferromagnet. Physica A: Statistical Mechanics and Its Applications, 1994, 212, 1-11.	1.2	3