Nicolas Taberlet

List of Publications by Year
in descending order

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48	1,379	279798	330143
papers	citations	23 h-index	37 g-index

49	49	49	1176
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superstable Granular Heap in a Thin Channel. Physical Review Letters, 2003, 91, 264301.	7.8	151
2	Timescales in creep and yielding of attractive gels. Soft Matter, 2014, 10, 1555.	2.7	98
3	Towards a theoretical picture of dense granular flows down inclines. Nature Materials, 2007, 6, 99-108.	27.5	96
4	â€œThe hydrogen atom of fluid dynamicsâ€•â€“ introduction to the Taylorâ€“Couette flow for soft matter scientists. Soft Matter, 2014, 10, 3523.	2.7	92
5	Ultrafast ultrasonic imaging coupled to rheometry: Principle and illustration. Review of Scientific Instruments, 2013, 84, 045107.	1.3	73
6	Shear-induced fragmentation of laponite suspensions. Soft Matter, 2009, 5, 3026.	2.7	57
7	Time dependence in large amplitude oscillatory shear: A rheo-ultrasonic study of fatigue dynamics in a colloidal gel. Journal of Rheology, 2014, 58, 1331-1357.	2.6	53
8	Hydrodynamics control shear-induced pattern formation in attractive suspensions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12193-12198.	7.1	53
9	Understanding the dynamics of segregation bands of simulated granular material in a rotating drum. Europhysics Letters, 2004, 68, 522-528.	2.0	52
10	On axial segregation in a tumbler: an experimental and numerical study. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P07013-P07013.	2.3	49
11	Shear-induced structuration of confined carbon black gels: steady-state features of vorticity-aligned flocs. Soft Matter, 2011, 7, 3920.	2.7	48
12	Diffusion of a granular pulse in a rotating drum. Physical Review E, 2006, 73, 041301.	2.1	46
13	Sshape of a granular pile in a rotating drum. Physical Review E, 2006, 73, 050301.	2.1	46
14	Lift and drag forces on an inclined plow moving over a granular surface. Physical Review E, 2011, 84, 051302.	2.1	39
15	Rock-avalanche dynamics: insights from granular physics experiments. International Journal of Earth Sciences, 2006, 95, 911-919.	1.8	38
16	Washboard Road: The Dynamics of Granular Ripples Formed by Rolling Wheels. Physical Review Letters, 2007, 99, 068003.	7.8	34
17	Multiple yielding processes in a colloidal gel under large amplitude oscillatory stress. Soft Matter, 2016, 12, 1701-1712.	2.7	34
18	Flow instabilities in large amplitude oscillatory shear: a cautionary tale. Rheologica Acta, 2014, 53, 885-898.	2.4	33

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19	Two- and three-dimensional confined granular chute flows: experimental and numerical results. Journal of Physics Condensed Matter, 2005, 17, S2457-S2480.	1.8	30
20	Scaling and dynamics of washboard roads. Physical Review E, 2009, 79, 061308.	2.1	30
21	The growth of a Super Stable Heap: An experimental and numerical study. Europhysics Letters, 2004, 68, 515-521.	2.0	28
22	Two-dimensional inclined chute flows: Transverse motion and segregation. Physical Review E, 2003, 68, 051303.	2.1	25
23	The effect of sidewall friction on dense granular flows. Computers and Mathematics With Applications, 2008, 55, 230-234.	2.7	23
24	Melting studies of indium: determination of the structure and density of melts at high pressures and high temperatures. Journal of Physics Condensed Matter, 2002, 14, 10533-10540.	1.8	21
25	Recent advances in DEM simulations of grains in a rotating drum. Soft Matter, 2008, 4, 1345.	2.7	18
26	Poly(ionic liquid)s with controlled architectures and their use in the making of ionogels with high conductivity and tunable rheological properties. Polymer Chemistry, 2016, 7, 6608-6616.	3.9	14
27	Insights on the local dynamics induced by thermal cycling in granular matter. Europhysics Letters, 2013, 104, 24001.	2.0	12
28	Modeling a washboard road: From experimental measurements to linear stability analysis. Physical Review E, 2013, 87, 012203.	2.1	11
29	Magnetic cannon: The physics of the Gauss rifle. American Journal of Physics, 2017, 85, 495-502.	0.7	11
30	Heat transfer and evaporative cooling in the function of pot-in-pot coolers. American Journal of Physics, 2018, 86, 206-211.	0.7	9
31	Mediating Gel Formation from Structurally Controlled Poly(Electrolytes) Through Multiple â€œHead-to-Bodyâ€•Electrostatic Interactions. Macromolecular Rapid Communications, 2015, 36, 55-59.	3.9	7
32	Onset of Glacier Tables. Physical Review Letters, 2021, 127, 108501.	7.8	7
33	How tall can gelatin towers be? An introduction to elasticity and buckling. American Journal of Physics, 2017, 85, 908-914.	0.7	5
34	Sublimation-driven morphogenesis of Zen stones on ice surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	5
35	Grains unchained: local fluidization of a granular packing by focused ultrasound. Soft Matter, 2016, 12, 2315-2324.	2.7	4
36	Measurement of the acoustic radiation force on a sphere embedded in a soft solid. Applied Physics Letters, 2017, 110, .	3.3	4

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37	The physics of a popsicle stick bomb. American Journal of Physics, 2017, 85, 783-790.	0.7	4
38	Hydraulic logic gates: building a digital water computer. European Journal of Physics, 2018, 39, 025801.	0.6	4
39	Synthetic schlierenâ€"application to the visualization and characterization of air convection. European Journal of Physics, 2018, 39, 035803.	0.6	3
40	Particle size segregation in two-dimensional circular granular aggregates. Physical Review E, 2021, 103, 022901.	2.1	3
41	Oscillations in a half-empty bottle. American Journal of Physics, 2018, 86, 119-125.	0.7	2
42	Stability Analysis of an Array of Magnets: When Will It Jump?. Physical Review Letters, 2018, 120, 264301.	7.8	2
43	Propelled Strings: Rising from Friction. Physical Review Letters, 2019, 123, 144501.	7.8	2
44	Small solar system bodies as granular systems. EPJ Web of Conferences, 2017, 140, 14011.	0.3	1
45	The physics of Magnus gliders. American Journal of Physics, 2021, 89, 843-850.	0.7	1
46	Formation of glacier tables caused by differential ice melting: field observation and modelling. Cryosphere, 2022, 16, 2617-2628.	3.9	1
47	Ion pairing controls rheological properties of â€œprocessionaryâ€•polyelectrolyte hydrogels. Soft Matter, 2016, 12, 9749-9758.	2.7	0
48	Why do aged fluorescent tubes flicker?. European Journal of Physics, 2017, 38, 065204.	0.6	0