

Nicolas Taberlet

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,379
citations

279798

23
h-index

330143

37
g-index

49
all docs

49
docs citations

49
times ranked

1176
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of glacier tables caused by differential ice melting: field observation and modelling. <i>Cryosphere</i> , 2022, 16, 2617-2628.	3.9	1
2	Particle size segregation in two-dimensional circular granular aggregates. <i>Physical Review E</i> , 2021, 103, 022901.	2.1	3
3	The physics of Magnus gliders. <i>American Journal of Physics</i> , 2021, 89, 843-850.	0.7	1
4	Onset of Glacier Tables. <i>Physical Review Letters</i> , 2021, 127, 108501.	7.8	7
5	Sublimation-driven morphogenesis of Zen stones on ice surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	5
6	Propelled Strings: Rising from Friction. <i>Physical Review Letters</i> , 2019, 123, 144501.	7.8	2
7	Hydrodynamics control shear-induced pattern formation in attractive suspensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12193-12198.	7.1	53
8	Heat transfer and evaporative cooling in the function of pot-in-pot coolers. <i>American Journal of Physics</i> , 2018, 86, 206-211.	0.7	9
9	Synthetic schlieren application to the visualization and characterization of air convection. <i>European Journal of Physics</i> , 2018, 39, 035803.	0.6	3
10	Oscillations in a half-empty bottle. <i>American Journal of Physics</i> , 2018, 86, 119-125.	0.7	2
11	Hydraulic logic gates: building a digital water computer. <i>European Journal of Physics</i> , 2018, 39, 025801.	0.6	4
12	Stability Analysis of an Array of Magnets: When Will It Jump?. <i>Physical Review Letters</i> , 2018, 120, 264301.	7.8	2
13	Measurement of the acoustic radiation force on a sphere embedded in a soft solid. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	4
14	Magnetic cannon: The physics of the Gauss rifle. <i>American Journal of Physics</i> , 2017, 85, 495-502.	0.7	11
15	The physics of a popsicle stick bomb. <i>American Journal of Physics</i> , 2017, 85, 783-790.	0.7	4
16	Why do aged fluorescent tubes flicker?. <i>European Journal of Physics</i> , 2017, 38, 065204.	0.6	0
17	How tall can gelatin towers be? An introduction to elasticity and buckling. <i>American Journal of Physics</i> , 2017, 85, 908-914.	0.7	5
18	Small solar system bodies as granular systems. <i>EPJ Web of Conferences</i> , 2017, 140, 14011.	0.3	1

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19	Ion pairing controls rheological properties of α -processionary-polyelectrolyte hydrogels. <i>Soft Matter</i> , 2016, 12, 9749-9758.	2.7	0
20	Poly(ionic liquid)s with controlled architectures and their use in the making of ionogels with high conductivity and tunable rheological properties. <i>Polymer Chemistry</i> , 2016, 7, 6608-6616.	3.9	14
21	Grains unchained: local fluidization of a granular packing by focused ultrasound. <i>Soft Matter</i> , 2016, 12, 2315-2324.	2.7	4
22	Multiple yielding processes in a colloidal gel under large amplitude oscillatory stress. <i>Soft Matter</i> , 2016, 12, 1701-1712.	2.7	34
23	Mediating Gel Formation from Structurally Controlled Poly(Electrolytes) Through Multiple α -Head-to-Body-Electrostatic Interactions. <i>Macromolecular Rapid Communications</i> , 2015, 36, 55-59.	3.9	7
24	Flow instabilities in large amplitude oscillatory shear: a cautionary tale. <i>Rheologica Acta</i> , 2014, 53, 885-898.	2.4	33
25	Timescales in creep and yielding of attractive gels. <i>Soft Matter</i> , 2014, 10, 1555.	2.7	98
26	α -The hydrogen atom of fluid dynamics α - α introduction to the Taylor α -Couette flow for soft matter scientists. <i>Soft Matter</i> , 2014, 10, 3523.	2.7	92
27	Time dependence in large amplitude oscillatory shear: A rheo-ultrasonic study of fatigue dynamics in a colloidal gel. <i>Journal of Rheology</i> , 2014, 58, 1331-1357.	2.6	53
28	Ultrafast ultrasonic imaging coupled to rheometry: Principle and illustration. <i>Review of Scientific Instruments</i> , 2013, 84, 045107.	1.3	73
29	Modeling a washboard road: From experimental measurements to linear stability analysis. <i>Physical Review E</i> , 2013, 87, 012203.	2.1	11
30	Insights on the local dynamics induced by thermal cycling in granular matter. <i>Europhysics Letters</i> , 2013, 104, 24001.	2.0	12
31	Shear-induced structuration of confined carbon black gels: steady-state features of vorticity-aligned flocs. <i>Soft Matter</i> , 2011, 7, 3920.	2.7	48
32	Lift and drag forces on an inclined plow moving over a granular surface. <i>Physical Review E</i> , 2011, 84, 051302.	2.1	39
33	Scaling and dynamics of washboard roads. <i>Physical Review E</i> , 2009, 79, 061308.	2.1	30
34	Shear-induced fragmentation of laponite suspensions. <i>Soft Matter</i> , 2009, 5, 3026.	2.7	57
35	The effect of sidewall friction on dense granular flows. <i>Computers and Mathematics With Applications</i> , 2008, 55, 230-234.	2.7	23
36	Recent advances in DEM simulations of grains in a rotating drum. <i>Soft Matter</i> , 2008, 4, 1345.	2.7	18

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37	Washboard Road: The Dynamics of Granular Ripples Formed by Rolling Wheels. <i>Physical Review Letters</i> , 2007, 99, 068003.	7.8	34
38	Towards a theoretical picture of dense granular flows down inclines. <i>Nature Materials</i> , 2007, 6, 99-108.	27.5	96
39	Rock-avalanche dynamics: insights from granular physics experiments. <i>International Journal of Earth Sciences</i> , 2006, 95, 911-919.	1.8	38
40	On axial segregation in a tumbler: an experimental and numerical study. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, P07013-P07013.	2.3	49
41	Diffusion of a granular pulse in a rotating drum. <i>Physical Review E</i> , 2006, 73, 041301.	2.1	46
42	Sshape of a granular pile in a rotating drum. <i>Physical Review E</i> , 2006, 73, 050301.	2.1	46
43	Two- and three-dimensional confined granular chute flows: experimental and numerical results. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S2457-S2480.	1.8	30
44	Understanding the dynamics of segregation bands of simulated granular material in a rotating drum. <i>Europhysics Letters</i> , 2004, 68, 522-528.	2.0	52
45	The growth of a Super Stable Heap: An experimental and numerical study. <i>Europhysics Letters</i> , 2004, 68, 515-521.	2.0	28
46	Superstable Granular Heap in a Thin Channel. <i>Physical Review Letters</i> , 2003, 91, 264301.	7.8	151
47	Two-dimensional inclined chute flows: Transverse motion and segregation. <i>Physical Review E</i> , 2003, 68, 051303.	2.1	25
48	Melting studies of indium: determination of the structure and density of melts at high pressures and high temperatures. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 10533-10540.	1.8	21