YoÃ«l Forterre

List of Publications by Year
in descending order

25 papers	4,255 citations	516710 16 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	2483 citing authors

#	Article	IF	Citations
1	A constitutive law for dense granular flows. Nature, 2006, 441, 727-730.	27.8	1,371
2	Flows of Dense Granular Media. Annual Review of Fluid Mechanics, 2008, 40, 1-24.	25.0	829
3	Crucial role of sidewalls in granular surface flows: consequences for the rheology. Journal of Fluid Mechanics, 2005, 541, 167.	3.4	413
4	Friction law for dense granular flows: application to the motion of a mass down a rough inclined plane. Journal of Fluid Mechanics, 2002, 453, 133-151.	3.4	361
5	Long-surface-wave instability in dense granular flows. Journal of Fluid Mechanics, 2003, 486, 21-50.	3.4	207
6	Revealing the frictional transition in shear-thickening suspensions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5147-5152.	7.1	121
7	Kapiza waves as a test for three-dimensional granular flow rheology. Journal of Fluid Mechanics, 2006, 563, 123.	3.4	73
8	Inclination not force is sensed by plants during shoot gravitropism. Scientific Reports, 2016, 6, 35431.	3.3	63
9	Depth-Independent Drag Force Induced by Stirring in Granular Media. Physical Review Letters, 2013, 110, 138303.	7.8	59
10	Lift forces in granular media. Physics of Fluids, 2014, 26, .	4.0	58
11	Gravisensors in plant cells behave like an active granular liquid. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5123-5128.	7.1	51
12	Revealing the hierarchy of processes and time-scales that control the tropic response of shoots to gravi-stimulations. Journal of Experimental Botany, 2019, 70, 1955-1967.	4.8	42
13	SLOW DENSE GRANULAR FLOWS AS A SELF-INDUCED PROCESS. International Journal of Modeling, Simulation, and Scientific Computing, 2001, 04, 441-450.	1.4	39
14	Unifying Impacts in Granular Matter from Quicksand to Cornstarch. Physical Review Letters, 2016, 117, 098003.	7.8	32
15	How a Curved Elastic Strip Opens. Physical Review Letters, 2014, 113, 214301.	7.8	26
16	An Integrative Model of Plant Gravitropism Linking Statoliths Position and Auxin Transport. Frontiers in Plant Science, 2021, 12, 651928.	3.6	19
17	Origin of a depth-independent drag force induced by stirring in granular media. Physical Review E, 2015, 91, 022201.	2.1	16
18	Physics of particulate flows: From sand avalanche to active suspensions in plants. Comptes Rendus Physique, 2018, 19, 271-284.	0.9	14

#	Article	IF	Citations
19	Interparticle Friction Leads to Nonmonotonic Flow Curves and Hysteresis in Viscous Suspensions. Physical Review X, 2019, 9, .	8.9	14
20	The Darcytron: A pressure-imposed device to probe the frictional transition in shear-thickening suspensions. Journal of Rheology, 2020, 64, 395-403.	2.6	10
21	Surface-wave instability without inertia in shear-thickening suspensions. Communications Physics, 2020, 3, .	5.3	10
22	Brownian Granular Flows Down Heaps. Physical Review Letters, 2019, 123, 248005.	7.8	9
23	Nonlocal Effects Reflect the Jamming Criticality in Frictionless Granular Flows Down Inclines. Physical Review Letters, 2021, 126, 228002.	7.8	9
24	Deformation upon impact of a concentrated suspension drop. Journal of Fluid Mechanics, 2020, 896, .	3.4	5
25	Transients in pressure-imposed shearing of dense granular suspensions. EPJ Web of Conferences, 2021, 249, 09009.	0.3	1