Ãlisabeth Guazzelli

List of Publications by Year
in descending order

35 papers	2,754 citations	279798 23 h-index	361022 35 g-index
35 all docs	35 docs citations	35 times ranked	2004 citing authors

#	ARTICLE	IF	CITATIONS
1	Unifying Suspension and Granular Rheology. Physical Review Letters, 2011, 107, 188301.	7.8	637
2	Inertial migration of rigid spherical particles in Poiseuille flow. Journal of Fluid Mechanics, 2004, 515, 171-195.	3.4	406
3	Rheology of dense granular suspensions. Journal of Fluid Mechanics, 2018, 852, .	3.4	273
4	Fluctuations and Instability in Sedimentation. Annual Review of Fluid Mechanics, 2011, 43, 97-116.	25.0	213
5	Dense suspensions in rotating-rod flows: normal stresses and particle migration. Journal of Fluid Mechanics, 2011, 686, 5-25.	3.4	110
6	The suspension balance model revisited. Physics of Fluids, 2011, 23, .	4.0	108
7	Sediment dynamics. Part 1. Bed-load transport by laminar shearing flows. Journal of Fluid Mechanics, 2009, 636, 295-319.	3.4	105
8	Falling clouds of particles in viscous fluids. Journal of Fluid Mechanics, 2007, 580, 283-301.	3.4	98
9	Suspensions in a tilted trough: second normal stress difference. Journal of Fluid Mechanics, 2011, 686, 26-39.	3.4	82
10	Investigation of the mobile granular layer in bedload transport by laminar shearing flows. Journal of Fluid Mechanics, 2013, 736, 594-615.	3.4	78
11	Spreading fronts and fluctuations in sedimentation. Physics of Fluids, 2003, 15, 1875-1887.	4.0	67
12	Rheology of dense suspensions of non-colloidal spheres in yield-stress fluids. Journal of Fluid Mechanics, 2015, 776, .	3.4	64
13	Evolution of particle-velocity correlations in sedimentation. Physics of Fluids, 2001, 13, 1537-1540.	4.0	60
14	Dynamics of shear-induced migration of spherical particles in oscillatory pipe flow. Journal of Fluid Mechanics, 2016, 786, 128-153.	3.4	50
15	Transverse Alignment of Fibers in a Periodically Sheared Suspension: An Absorbing Phase Transition with a Slowly Varying Control Parameter. Physical Review Letters, 2011, 107, 250603.	7.8	48
16	A falling cloud of particles at a small but finite Reynolds number. Journal of Fluid Mechanics, 2011, 671, 34-51.	3.4	47
17	The motion of solid spherical particles falling in a cellular flow field at low Stokes number. Physics of Fluids, 2014, 26, .	4.0	47
18	Inertial effects on fibers settling in a vortical flow. Physical Review Fluids, 2017, 2, .	2.5	34

#	ARTICLE	IF	CITATIONS
19	Rheology of concentrated suspensions of non-colloidal rigid fibres. Journal of Fluid Mechanics, 2017, 827, .	3.4	28
20	Enhancing shear thickening. Physical Review Fluids, 2017, 2, .	2.5	28
21	Normal stress differences in suspensions of rigidÂ fibres. Journal of Fluid Mechanics, 2014, 758, 486-507.	3.4	27
22	Pinch-off of a viscous suspension thread. Journal of Fluid Mechanics, 2018, 852, 178-198.	3.4	25
23	Influence of surface roughness on the rheology of immersed and dry frictional spheres. Physical Review Fluids, 2019, 4, .	2.5	25
24	Vorticity alignment of rigid fibers in an oscillatory shear flow: Role of confinement. Physics of Fluids, 2012, 24, .	4.0	17
25	Fluctuations and stratification in sedimentation of dilute suspensions of spheres. Physics of Fluids, 2009, 21, .	4.0	12
26	Non-Poisson statistics of settling spheres. Physics of Fluids, 2009, 21, .	4.0	12
27	Influence of particles on the transition to turbulence in pipe flow. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 911-919.	3.4	10
28	Dynamics of non-Brownian fiber suspensions under periodic shear. Soft Matter, 2014, 10, 6722-6731.	2.7	10
29	Rheology of mobile sediment beds sheared by viscous, pressure-driven flows. Journal of Fluid Mechanics, 2021, 921, .	3.4	10
30	Spreading of granular suspensions on a solid surface. Physical Review Research, 2020, 2, .	3.6	9
31	Falling clouds of particles in vortical flows. Journal of Fluid Mechanics, 2021, 908, .	3.4	5
32	Particle-laden flow around an obstacle in a square pipe: experiments and modeling. Mechanics and Industry, 2020, 21, 517.	1.3	4
33	Dilute sedimenting suspensions of spheres at small inertia. Journal of Fluid Mechanics, 2021, 914, .	3.4	3
34	Extensional viscosity and thinning of a fiber suspension thread. Physical Review Fluids, 2021, 6, .	2.5	1
35	Fiber alignment in oscillating confined shearing flows. Physical Review Fluids, 2021, 6, .	2.5	1