

Yacine Amarouchene

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,243
citations

331670

21
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft-lubrication interactions between a rigid sphere and an elastic wall. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	12
2	Giant Diffusion of Nanomechanical Rotors in a Tilted Washboard Potential. <i>Physical Review Letters</i> , 2022, 129, .	7.8	5
3	Near-Field Probe of Thermal Fluctuations of a Hemispherical Bubble Surface. <i>Physical Review Letters</i> , 2021, 126, 174503.	7.8	7
4	Stochastic inference of surface-induced effects using Brownian motion. <i>Physical Review Research</i> , 2021, 3, .	3.6	4
5	Axisymmetric Stokes flow due to a point-force singularity acting between two coaxially positioned rigid no-slip disks. <i>Journal of Fluid Mechanics</i> , 2020, 904, .	3.4	6
6	Role of nonconservative scattering forces and damping on Brownian particles in optical traps. <i>Physical Review E</i> , 2019, 99, 052107.	2.1	11
7	Nonequilibrium Dynamics Induced by Scattering Forces for Optically Trapped Nanoparticles in Strongly Inertial Regimes. <i>Physical Review Letters</i> , 2019, 122, 183901.	7.8	15
8	Nonlinear Brownian dynamics of interfacial fluctuations in a shear flow. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P12011.	2.3	3
9	Drop Formation in Non-Newtonian Fluids. <i>Physical Review Letters</i> , 2013, 110, 034501.	7.8	62
10	Rheology of polymer solutions using colloidal-probe atomic force microscopy. <i>Physical Review E</i> , 2013, 87, 062601.	2.1	7
11	Incompressible-compressible transition in falling granular jets. <i>Europhysics Letters</i> , 2013, 102, 24006.	2.0	7
12	Sedimentation of granular columns in the viscous and weakly inertial regimes. <i>Physical Review E</i> , 2013, 88, 042204.	2.1	5
13	The Microcantilever: A Versatile Tool for Measuring the Rheological Properties of Complex Fluids. <i>Journal of Sensors</i> , 2012, 2012, 1-9.	1.1	44
14	Experimental Evidence of a Rayleigh-Plateau Instability in Free Falling Granular Jets. <i>Physical Review Letters</i> , 2011, 106, 198001.	7.8	19
15	Large velocity fluctuations in small-Reynolds-number pipe flow of polymer solutions. <i>Physical Review E</i> , 2011, 84, 045301.	2.1	47
16	Polymer conformations and hysteretic stresses in nonstationary flows of polymer solutions. <i>Europhysics Letters</i> , 2009, 86, 34002.	2.0	15
17	Thermal Convection and Emergence of Isolated Vortices in Soap Bubbles. <i>Physical Review Letters</i> , 2008, 100, 144501.	7.8	52
18	Capillarylike Fluctuations at the Interface of Falling Granular Jets. <i>Physical Review Letters</i> , 2008, 100, 218001.	7.8	25

#	ARTICLE	IF	CITATIONS
19	Drag Enhancement with Polymers. <i>Physical Review Letters</i> , 2008, 100, 018302.	7.8	39
20	Reynolds number dependence of drag reduction by rodlike polymers. <i>Physics of Fluids</i> , 2008, 20, .	4.0	20
21	Shock Front Width and Structure in Supersonic Granular Flows. <i>Physical Review Letters</i> , 2008, 101, 254503.	7.8	29
22	Velocity Profiles of Water Flowing Past Solid Glass Surfaces Using Fluorescent Nanoparticles and Molecules as Velocity Probes. <i>Physical Review Letters</i> , 2008, 100, 214502.	7.8	48
23	The granular jump. <i>Journal of Fluid Mechanics</i> , 2007, 572, 413-431.	3.4	43
24	Intermittency of the velocity fluctuations in a granular surface flow. <i>Physics of Fluids</i> , 2007, 19, 078104.	4.0	6
25	Dynamics of Impact Cratering in Shallow Sand Layers. <i>Physical Review Letters</i> , 2006, 96, 158001.	7.8	46
26	Speed of sound from shock fronts in granular flows. <i>Physics of Fluids</i> , 2006, 18, 031707.	4.0	45
27	Turbulent drag reduction by surfactants. <i>Europhysics Letters</i> , 2006, 74, 362-368.	2.0	47
28	Non-aeolian sand ripples. <i>Europhysics Letters</i> , 2005, 69, 365-370.	2.0	5
29	Turbulent drag reduction by polymers. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S1195-S1202.	1.8	35
30	Droplet Detachment and Satellite Bead Formation in Viscoelastic Fluids. <i>Physical Review Letters</i> , 2005, 95, 164504.	7.8	121
31	Conformation Statistics of a Deformable Material Line in Two-Dimensional Turbulence. <i>Physical Review Letters</i> , 2005, 95, 054501.	7.8	4
32	Role of Fluctuation-Induced Interactions in the Axial Segregation of Granular Materials. <i>Physical Review Letters</i> , 2005, 95, 258002.	7.8	30
33	Batchelor Scaling in Fast-Flowing Soap Films. <i>Physical Review Letters</i> , 2004, 93, 214504.	7.8	14
34	Self-similar dynamic quasi-two-dimensional sand fronts. <i>Physical Review E</i> , 2003, 67, 010303.	2.1	3
35	Turbulent-drag reduction of polyelectrolyte solutions: Relation with the elongational viscosity. <i>Europhysics Letters</i> , 2003, 64, 823-829.	2.0	36
36	Thickness Fluctuations in Turbulent Soap Films. <i>Physical Review Letters</i> , 2002, 88, 194101.	7.8	23

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37	Polymers in 2D Turbulence: Suppression of Large Scale Fluctuations. Physical Review Letters, 2002, 89, 104502.	7.8	33
38	Noncoalescing Drops. Physical Review Letters, 2001, 87, 206104.	7.8	67
39	Inhibition of the Finite-Time Singularity during Droplet Fission of a Polymeric Fluid. Physical Review Letters, 2001, 86, 3558-3561.	7.8	145
40	Dynamic Sand Dunes. Physical Review Letters, 2001, 86, 4286-4289.	7.8	58