

Juan Ruben Gomez-Solano

List of Publications by Year in descending order

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29
papers

1,156
citations

430442

18
h-index

476904

29
g-index

31
all docs

31
docs citations

31
times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Self-Propelled Janus Particles in Viscoelastic Fluids. <i>Physical Review Letters</i> , 2016, 116, 138301.	2.9	127
2	Optical tweezers " from calibration to applications: a tutorial. <i>Advances in Optics and Photonics</i> , 2021, 13, 74.	12.1	127
3	Experimental Verification of a Modified Fluctuation-Dissipation Relation for a Micron-Sized Particle in a Nonequilibrium Steady State. <i>Physical Review Letters</i> , 2009, 103, 040601.	2.9	119
4	Steady-state fluctuation relations for systems driven by an external random force. <i>Europhysics Letters</i> , 2010, 89, 60003.	0.7	84
5	Memory-Induced Transition from a Persistent Random Walk to Circular Motion for Achiral Microswimmers. <i>Physical Review Letters</i> , 2018, 121, 078003.	2.9	67
6	Tuning the motility and directionality of self-propelled colloids. <i>Scientific Reports</i> , 2017, 7, 14891.	1.6	66
7	Oscillating modes of driven colloids in overdamped systems. <i>Nature Communications</i> , 2018, 9, 999.	5.8	58
8	Heat Fluctuations in a Nonequilibrium Bath. <i>Physical Review Letters</i> , 2011, 106, 200602.	2.9	53
9	Fluctuations, Linear Response, and Currents in Out-of-Equilibrium Systems. <i>Annual Review of Condensed Matter Physics</i> , 2013, 4, 235-261.	5.2	52
10	Transient dynamics of a colloidal particle driven through a viscoelastic fluid. <i>New Journal of Physics</i> , 2015, 17, 103032.	1.2	47
11	Active particles sense micromechanical properties of glasses. <i>Nature Materials</i> , 2019, 18, 1118-1123.	13.3	46
12	Enhanced dispersion by elastic turbulence in porous media. <i>Europhysics Letters</i> , 2014, 107, 54003.	0.7	33
13	Probing linear and nonlinear microrheology of viscoelastic fluids. <i>Europhysics Letters</i> , 2014, 108, 54008.	0.7	30
14	Generalized Ornstein-Uhlenbeck model for active motion. <i>Physical Review E</i> , 2019, 100, 032123.	0.8	30
15	Active particles in geometrically confined viscoelastic fluids. <i>New Journal of Physics</i> , 2019, 21, 093058.	1.2	29
16	Fluctuations and response in a non-equilibrium micron-sized system. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P01008.	0.9	27
17	Run-and-tumble-like motion of active colloids in viscoelastic media. <i>New Journal of Physics</i> , 2018, 20, 015008.	1.2	26
18	Experimental study of out-of-equilibrium fluctuations in a colloidal suspension of Laponite using optical traps. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P04012.	0.9	23

#	ARTICLE	IF	CITATIONS
19	Fluctuations, linear response and heat flux of an aging system. Europhysics Letters, 2012, 98, 10007.	0.7	17
20	Non-equilibrium work distribution for interacting colloidal particles under friction. New Journal of Physics, 2015, 17, 045026.	1.2	17
21	Fluid Viscoelasticity Triggers Fast Transitions of a Brownian Particle in a Double Well Optical Potential. Physical Review Letters, 2021, 126, 108001.	2.9	17
22	Transient coarsening and the motility of optically heated Janus colloids in a binary liquid mixture. Soft Matter, 2020, 16, 8359-8371.	1.2	12
23	Work Extraction and Performance of Colloidal Heat Engines in Viscoelastic Baths. Frontiers in Physics, 2021, 9, .	1.0	11
24	Nucleation and growth of thermoreversible polymer gels. Physical Review E, 2013, 87, 012308.	0.8	10
25	Active particles with fractional rotational Brownian motion. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 063213.	0.9	10
26	Coarsening in potential and nonpotential models of oblique stripe patterns. Physical Review E, 2007, 76, 041131.	0.8	7
27	Finite sampling effects on generalized fluctuation-dissipation relations for steady states. Journal of Physics: Conference Series, 2011, 297, 012006.	0.3	4
28	Fluctuations in an aging system: the absence of an effective temperature in the sol-gel transition of a quenched gelatin sample. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P10020.	0.9	3
29	Relaxation to steady states of a binary liquid mixture around an optically heated colloid. Physical Review E, 2022, 105, 014123.	0.8	3