

Juan Ruben Gomez-Solano

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,156
citations

430874

18
h-index

477307

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. Physical Review Letters, 2016, 116, 138301.	7.8	127
2	Optical tweezers “ from calibration to applications: a tutorial. Advances in Optics and Photonics, 2021, 13, 74.	25.5	127
3	Experimental Verification of a Modified Fluctuation-Dissipation Relation for a Micron-Sized Particle in a Nonequilibrium Steady State. Physical Review Letters, 2009, 103, 040601.	7.8	119
4	Steady-state fluctuation relations for systems driven by an external random force. Europhysics Letters, 2010, 89, 60003.	2.0	84
5	Memory-Induced Transition from a Persistent Random Walk to Circular Motion for Achiral Microswimmers. Physical Review Letters, 2018, 121, 078003.	7.8	67
6	Tuning the motility and directionality of self-propelled colloids. Scientific Reports, 2017, 7, 14891.	3.3	66
7	Oscillating modes of driven colloids in overdamped systems. Nature Communications, 2018, 9, 999.	12.8	58
8	Heat Fluctuations in a Nonequilibrium Bath. Physical Review Letters, 2011, 106, 200602.	7.8	53
9	Fluctuations, Linear Response, and Currents in Out-of-Equilibrium Systems. Annual Review of Condensed Matter Physics, 2013, 4, 235-261.	14.5	52
10	Transient dynamics of a colloidal particle driven through a viscoelastic fluid. New Journal of Physics, 2015, 17, 103032.	2.9	47
11	Active particles sense micromechanical properties of glasses. Nature Materials, 2019, 18, 1118-1123.	27.5	46
12	Enhanced dispersion by elastic turbulence in porous media. Europhysics Letters, 2014, 107, 54003.	2.0	33
13	Probing linear and nonlinear microrheology of viscoelastic fluids. Europhysics Letters, 2014, 108, 54008.	2.0	30
14	Generalized Ornstein-Uhlenbeck model for active motion. Physical Review E, 2019, 100, 032123.	2.1	30
15	Active particles in geometrically confined viscoelastic fluids. New Journal of Physics, 2019, 21, 093058.	2.9	29
16	Fluctuations and response in a non-equilibrium micron-sized system. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P01008.	2.3	27
17	Run-and-tumble-like motion of active colloids in viscoelastic media. New Journal of Physics, 2018, 20, 015008.	2.9	26
18	Experimental study of out-of-equilibrium fluctuations in a colloidal suspension of Laponite using optical traps. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P04012.	2.3	23

#	ARTICLE	IF	CITATIONS
19	Fluctuations, linear response and heat flux of an aging system. Europhysics Letters, 2012, 98, 10007.	2.0	17
20	Non-equilibrium work distribution for interacting colloidal particles under friction. New Journal of Physics, 2015, 17, 045026.	2.9	17
21	Fluid Viscoelasticity Triggers Fast Transitions of a Brownian Particle in a Double Well Optical Potential. Physical Review Letters, 2021, 126, 108001.	7.8	17
22	Transient coarsening and the motility of optically heated Janus colloids in a binary liquid mixture. Soft Matter, 2020, 16, 8359-8371.	2.7	12
23	Work Extraction and Performance of Colloidal Heat Engines in Viscoelastic Baths. Frontiers in Physics, 2021, 9, .	2.1	11
24	Nucleation and growth of thermoreversible polymer gels. Physical Review E, 2013, 87, 012308.	2.1	10
25	Active particles with fractional rotational Brownian motion. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 063213.	2.3	10
26	Coarsening in potential and nonpotential models of oblique stripe patterns. Physical Review E, 2007, 76, 041131.	2.1	7
27	Finite sampling effects on generalized fluctuation-dissipation relations for steady states. Journal of Physics: Conference Series, 2011, 297, 012006.	0.4	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.	2.3	3
29	Relaxation to steady states of a binary liquid mixture around an optically heated colloid. Physical Review E, 2022, 105, 014123.	2.1	3