Alessandro Sarracino

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microscopic Theory for the Diffusion of an Active Particle in a Crowded Environment. Physical Review Letters, 2022, 128, 038001.	7.8	11
2	Role of inhibitory neurons in temporal correlations of critical and supercritical spontaneous activity. Physica A: Statistical Mechanics and Its Applications, 2021, 565, 125555.	2.6	7
3	Fluctuation–Dissipation Relations in Active Matter Systems. Symmetry, 2021, 13, 81.	2.2	24
4	Stochastic Thermodynamics of a Piezoelectric Energy Harvester Model. Entropy, 2021, 23, 677.	2.2	10
5	Critical behaviour of the stochastic Wilson-Cowan model. PLoS Computational Biology, 2021, 17, e1008884.	3.2	15
6	Diffusion properties of self-propelled particles in cellular flows. Soft Matter, 2020, 16, 5431-5438.	2.7	11
7	Predicting brain evoked response to external stimuli from temporal correlations of spontaneous activity. Physical Review Research, 2020, 2, .	3.6	22
8	On the fluctuation-dissipation relation in non-equilibrium and non-Hamiltonian systems. Chaos, 2019, 29, 083132.	2.5	25
9	Probability Distributions with Singularities. Entropy, 2019, 21, 312.	2.2	9
10	Induced and endogenous acoustic oscillations in granular faults. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20170389.	3.4	7
11	Condensation versus ordering: From the spherical models to Bose-Einstein condensation in the canonical and grand canonical ensemble. Physical Review Research, 2019, 1, .	3.6	6
12	Controlled Viscosity in Dense Granular Materials. Physical Review Letters, 2018, 120, 138001.	7.8	12
13	Thermodynamics and Statistical Mechanics of Small Systems. Entropy, 2018, 20, 392.	2.2	6
14	Anomalous mobility of a driven active particle in a steady laminar flow. Journal of Physics Condensed Matter, 2018, 30, 264002.	1.8	9
15	Tracer diffusion in crowded narrow channels. Journal of Physics Condensed Matter, 2018, 30, 443001.	1.8	34
16	Nonequilibrium Fluctuations and Enhanced Diffusion of a Driven Particle in a Dense Environment. Physical Review Letters, 2018, 120, 200606.	7.8	26
17	Anomalous force-velocity relation of driven inertial tracers in steady laminar flows. European Physical Journal E, 2017, 40, 81.	1.6	14
18	Temperature in and out of equilibrium: A review of concepts, tools and attempts. Physics Reports, 2017, 709-710, 1-60.	25.6	124

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19	Heat fluctuations of Brownian oscillators in nonstationary processes: Fluctuation theorem and condensation transition. Physical Review E, 2017, 95, 052138.	2.1	18
20	Self-propulsion against a moving membrane: Enhanced accumulation and drag force. Physical Review E, 2017, 96, 032601.	2.1	14
21	About thermometers and temperature. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 113202.	2.3	16
22	Fourier's Law in a Generalized Piston Model. Entropy, 2017, 19, 350.	2.2	5
23	Unified rheology of vibro-fluidized dry granular media: From slow dense flows to fast gas-like regimes. Scientific Reports, 2016, 6, 38604.	3.3	16
24	Nonlinear response and emerging nonequilibrium microstructures for biased diffusion in confined crowded environments. Physical Review E, 2016, 93, 032128.	2.1	37
25	Nonlinear Response of Inertial Tracers in Steady Laminar Flows: Differential and Absolute Negative Mobility. Physical Review Letters, 2016, 117, 174501.	7.8	51
26	Diffusion and Subdiffusion of Interacting Particles on Comblike Structures. Physical Review Letters, 2015, 115, 220601.	7.8	48
27	Coarsening in granular systems. Comptes Rendus Physique, 2015, 16, 291-302.	0.9	6
28	Coulomb Friction Driving Brownian Motors. Communications in Theoretical Physics, 2014, 62, 505-513.	2.5	7
29	Microscopic Theory for Negative Differential Mobility in Crowded Environments. Physical Review Letters, 2014, 113, 268002.	7.8	62
30	Fluctuations in partitioning systems with few degrees of freedom. Physical Review E, 2014, 89, 042105.	2.1	8
31	Scaling Properties of Field-Induced Superdiffusion in Continuous Time Random Walks. Communications in Theoretical Physics, 2014, 62, 514-520.	2.5	17
32	Nonequilibrium Fluctuation-Dissipation Theorem and Heat Production. Physical Review Letters, 2014, 112, 140602.	7.8	32
33	Nonequilibrium Brownian Motion beyond the Effective Temperature. PLoS ONE, 2014, 9, e93720.	2.5	34
34	Large Deviations of Brownian Motors. Lecture Notes in Physics, 2014, , 221-241.	0.7	1
35	Nonequilibrium fluctuations in a frictional granular motor: Experiments and kinetic theory. Physical Review E, 2013, 87, 052209.	2.1	26
36	Ratchet effect driven by Coulomb friction: The asymmetric Rayleigh piston. Physical Review E, 2013, 87, 040101.	2.1	22

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37	Brownian Ratchet in a Thermal Bath Driven by Coulomb Friction. Physical Review Letters, 2013, 110, 120601.	7.8	71
38	Time asymmetry of the Kramers equation with nonlinear friction: Fluctuation-dissipation relation and ratchet effect. Physical Review E, 2013, 88, 052124.	2.1	23
39	Fluctuation relations without uniform large deviations. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 335002.	2.1	19
40	Rare events and scaling properties in field-induced anomalous dynamics. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P09022.	2.3	25
41	The out of equilibrium response function in sub-diffusive systems. Physica Scripta, 2012, 86, 058516.	2.5	6
42	Structure factors in granular experiments with homogeneous fluidization. Journal of Chemical Physics, 2012, 136, 014704.	3.0	55
43	Nonequilibrium fluctuations in a driven stochastic Lorentz gas. Physical Review E, 2012, 85, 031112.	2.1	19
44	Entropy production in non-equilibrium fluctuating hydrodynamics. Journal of Chemical Physics, 2012, 137, 014509.	3.0	6
45	Einstein relation in superdiffusive systems. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, L06001.	2.3	10
46	Dynamics of a massive intruder in a homogeneously driven granular fluid. Granular Matter, 2012, 14, 235-238.	2.2	8
47	Fluctuating hydrodynamics and correlation lengths in a driven granular fluid. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P08017.	2.3	46
48	Non-equilibrium length in granular fluids: From experiment to fluctuating hydrodynamics. Europhysics Letters, 2011, 96, 14004.	2.0	44
49	Estimate of temperature and its uncertainty in small systems. American Journal of Physics, 2011, 79, 777-785.	0.7	33
50	On anomalous diffusion and the out of equilibrium response function in one-dimensional models. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, L01002.	2.3	23
51	The ratchet effect in an ageing glass. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, L12002.	2.3	11
52	Fluctuation-dissipation relations and field-free algorithms for the computation of response functions. Physical Review E, 2010, 81, 011124.	2.1	26
53	Fluctuations of two-time quantities and non-linear response functions. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P04003.	2.3	7
54	Granular Brownian motion. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P04013.	2.3	40

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55	Irreversible dynamics of a massive intruder in dense granular fluids. Europhysics Letters, 2010, 92, 34001.	2.0	66
56	Nonlinear response and fluctuation-dissipation relations. Physical Review E, 2008, 78, 041120.	2.1	62
57	Nonlinear susceptibilities and the measurement of a cooperative length. Physical Review B, 2008, 77, .	3.2	36