

Alessandro Sarracino

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,432
citations

279778

23
h-index

345203

36
g-index

61
all docs

61
docs citations

61
times ranked

840
citing authors

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

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

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

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